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	B0110-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 1 OF 5
	B0111-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 2 OF 5
	B0112-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 3 OF 5
	B0113-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 4 OF 5
	B0114-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWING	SHEET 5 OF 5
	B0116-A	BNSF - AVE 24 WYE	GENERAL	ABBREVIATIONS, SYMBOLS &	
	B0117-A	BNSF - AVE 24 WYE	OLNERAL	INDEX MAP	SHEET 1 OF 4
	B0118-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 2 OF 4
	B0119-A	BNSF - AVE 24 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 3 OF 4
	B0120-A	BNSF - AVE 24 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 4 OF 4
	CT0121-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	GRADE SEPARATION	SHEET 1 OF 1
	CT0122-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	GRADE SEPARATION	SHEET 2 OF 2
	CT5000-A	BNSF - AVE 24 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HAN	DLING APPROACH	SHEET 1 OF 2
	CT5000-B	BNSF - AVE 24 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HAN		SHEET 2 OF 2
	Lozopo .		AVE 24 WYE (LAYOUT)	Livout	CUSST 4 OF 2
1	CT0001-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 1 OF 3
1	CT0002-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 2 OF 3
1	CT0003-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	LAYOUT	SHEET 3 OF 3
2	CT0004-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 1 OF 3
2	CT0005-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 2 OF 3
2	CT0006-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	LAYOUT	SHEET 3 OF 3
3	CT0007-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 1 OF 3
3	CT0008-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 2 OF 3
3	CT0009-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	LAYOUT	SHEET 3 OF 3
4	CT0010-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 1 OF 3
4	CT0011-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 2 OF 3
4	CT0012-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	LAYOUT	SHEET 3 OF 3
5	CT0013-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 1 OF 4
5	CT0014-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 2 OF 4
5	CT0015-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 3 OF 4
5	CT0016-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	LAYOUT	SHEET 4 OF 4
6	CT0017-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 1 OF 3
6	CT0018-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 2 OF 3
6	CT0019-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	LAYOUT	SHEET 3 OF 3
7	CT0020-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 1 OF 3
7	CT0021-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 2 OF 3
7	CT0022-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	LAYOUT	SHEET 3 OF 3
8	CT0023-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - RAYMOND RD	LAYOUT	SHEET 1 OF 3
8	CT0024-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - RAYMOND RD	LAYOUT	SHEET 2 OF 3
8	CT0025-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - RAYMOND RD	LAYOUT	SHEET 3 OF 3
9	CT0026-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 1 OF 3
9	CT0027-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 2 OF 3
9	CT0028-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	LAYOUT	SHEET 3 OF 3
11	CT0032-A	BNSF MAIN LINE - AVE 24 WYE	UNDERPASS - ROAD 26	LAYOUT	SHEET 1 OF 3
11	CT0033-A	BNSF MAIN LINE - AVE 24 WYE	UNDERPASS - ROAD 26	LAYOUT	SHEET 2 OF 3
11	CT0034-A	BNSF MAIN LINE - AVE 24 WYE	UNDERPASS - ROAD 26	LAYOUT	SHEET 3 OF 3
12	CT0035-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	LAYOUT	SHEET 1 OF 3
12	CT0036-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	LAYOUT	SHEET 2 OF 3
12	CT0037-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	LAYOUT	SHEET 3 OF 3
13	CT0037 A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 1 OF 3
13	CT0038-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 2 OF 3
13	CT0040-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	LAYOUT	SHEET 3 OF 3
16	CT0048-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - SANTA FE AVE	LAYOUT	SHEET 1 OF 3
16	CT0049-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - SANTA FE AVE	LAYOUT	SHEET 2 OF 3
16	CT0050-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - SANTA FE AVE	LAYOUT	SHEET 3 OF 3
17	CT0051-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	LAYOUT	SHEET 1 OF 3
17	CT0052-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	LAYOUT	SHEET 2 OF 3
17	CT0053-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	LAYOUT	SHEET 3 OF 3
18	CT0054-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	LAYOUT	SHEET 1 OF 3
18	CT0055-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	LAYOUT	SHEET 2 OF 3
	CT0055-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE		
18				LAYOUT	SHEET 3 OF 3
19	CT0057-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 1 OF 3
19	CT0058-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 2 OF 3
19	CT0059-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 3 OF 3
20	CT0060-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	LAYOUT	SHEET 1 OF 3
20	CT0061-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	LAYOUT	SHEET 2 OF 3
20	CT0062-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	LAYOUT	SHEET 3 OF 3
28	CT0100-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	LAYOUT	SHEET 1 OF 3
7.0		BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24 GRADE SEPARATION - AVENUE 24	LAYOUT	SHEET 2 OF 3
28	CT0101-A				

DRAWING TITLE

LINE 4

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LINE 6

LINE 5

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4/2							DESIGNED BY R. GIBSON	
							DRAWN BY F. DEMARCO	
							CHECKED BY	İ
6	2	02/24/2012	RG				A. SILVER IN CHARGE	İ
arc	1	12/12/2011	RG				A. BOONE	l
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RECORD SET
15% DESIGN
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CONSTRUCTION

LOCATION SHT DWG

NO. NO. NO.

DRAWING TITLE

LINE 3

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 GENERAL INDEX OF DRAWINGS

SHEET 1 OF 5

CONTRACT NO.				
HSR06-007				
DRAWING NO.				
B0110-A				
SCALE				
NONE				

SHEET NO. ### OF ###

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							DRAWN BY F. DEMARCO	
							CHECKED BY A. SILVER	
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LOCATION SHT

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T0102-A

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CT0105-A

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CT0109-A

CT0110-A

CT0112-A

CT0113-A

CT0114-A

CT0115-A

CT0116-A

CT0117-A

CT0119-A

CT0120-A

CT0121-A

CT0122-A

CT0123-A

CT0124-A

CT0126-A CT0127-A

CT0128-A

CT0130-A

CT0131-A

CT0132-A

CT0134-A

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CT0149-A

CT0201-A

CT0202-A

CT0203-A

CT0204-A CT0205-A

CT0206-A

CT0207-A

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CT0209-A

CT0211-A

CT0212-A

CT0213-A

CT0214-A

CT0251-A

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CT0253-A

CT0254-A

CT0256-A

DRAWING TITLE

LINE 3

BNSF MAIN LINE - AVE 24 WYF

BNSF MAIN LINE - AVE 24 WYE

BNSF MAIN LINE - AVE 24 WYE

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BNSF MAIN LINE - AVE 24 WYE

DRAWING TITLE

LINE 4

GRADE SEPARATION - AVENUE 24 GRADE SEPARATION - AVENUE 26

GRADE SEPARATION - AVENUE 26

GRADE SEPARATION - AVENUE 26

GRADE SEPARATION - AVENUE 26

GRADE SEPARATION - ROAD 21

GRADE SEPARATION - ROAD 21

GRADE SEPARATION - ROAD 21

GRADE SEPARATION - AVENUE 24

GRADE SEPARATION - AVENUE 24

GRADE SEPARATION - AVENUE 24

GRADE SEPARATION - AVENUE 20

GRADE SEPARATION - AVENUE 20

GRADE SEPARATION - AVENUE 2

GRADE SEPARATION - ROAD 24

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GRADE SEPARATION - ROAD 24

GRADE SEPARATION - ROAD 22

GRADE SEPARATION - ROAD 22

GRADE SEPARATION - ROAD 16

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GRADE SEPARATION - ROAD 10

GRADE SEPARATION - ROAD 9

GRADE SEPARATION - ROAD 9

GRADE SEPARATION - ROAD 9

GRADE SEPARATION - AVENUE 7

GRADE SEPARATION - AVENUE 7

GRADE SEPARATION - AVENUE

GRADE SEPARATION - G STREET

MC - A1- AVE 24 WYE - ALT 01 (LAYOUT)

GRADE SEPARATION - WHITE ROCK RD

GRADE SEPARATION - WHITE ROCK RD

GRADE SEPARATION - WHITE ROCK RD

GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. CUNNINGHAM RD

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GRADE SEPARATION - S. CUNNINGHAM RD

GRADE SEPARATION - S. BURCHELL AVE GRADE SEPARATION - S. BURCHELL AVE

GRADE SEPARATION - S. BURCHELL AVE

GRADE SEPARATION - LE GRAND RD

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GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. CUNNINGHAM RD

AVE 24 WYE - ALT 02 (LAYOUT)

GRADE SEPARATION - ROAD 22

GRADE SEPARATION - AVENUE 20 1/2

GRADE SEPARATION - AVENUE 20 1/2

GRADE SEPARATION - AVENUE 20 1/2

GRADE SEPARATION - AVENUE 23 1/2

GRADE SEPARATION - AVENUE 23 1/2

GRADE SEPARATION - AVENUE 23 1/2

DRAWING TITLE DRAWING TITLE

LINE 6

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CALIFORNIA HIGH-SPEED TRAIN PROJECT CONTRACT NO. MERCED TO FRESNO

BNSF - AVE 24 GENERAL INDEX OF DRAWINGS

SHEET 2 OF 5

HSR06-007
DRAWING NO.
BO111-A
SCALE
NONE

SHEET NO. ### OF ###

AECOM Technical Services, Inc.	
2020 L Street, Suite 300 Sacramento, CA 95811	

MC - A1 -

2	02/24/2012	RG	

BY CHK APP

DESCRIPTION

LOCATION No.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE	DRAWING TITLE
77	110.	CT0257-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 2 OF 3
77		CT0258-A	BNSF MERCED CONNECTION AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	LAYOUT	SHEET 3 OF 3
78		CT0259-A	BNSF MERCED CONNECTION AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 1 OF 3
78		CT0260-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 2 OF 3
78		CT0261-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 3 OF 3
.,			MC - A1 -			
79		CT0300-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 1 OF 3
79		CT0301-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 2 OF 3
79		CT0302-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. SANTA FE AVE	LAYOUT	SHEET 3 OF 3
80		CT0303-A	BNSF MERCED CONNECTION - AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD	LAYOUT LAYOUT	SHEET 1 OF 3
80 80		CT0304-A CT0305-A	BNSF MERCED CONNECTION- AVE 24 WYE BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - PLAINSBURG RD GRADE SEPARATION - PLAINSBURG RD	LAYOUT	SHEET 2 OF 3 SHEET 3 OF 3
81		CT0306-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ARBOLEDA RD	LAYOUT	SHEET 1 OF 3
81		CT0307-A	BNSF MERCED CONNECTION AVE 24 WYE	GRADE SEPARATION - S. ARBOLEDA RD	LAYOUT	SHEET 2 OF 3
81		CT0308-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ARBOLEDA RD	LAYOUT	SHEET 3 OF 3
82		CT0309-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ORCHARD DR	LAYOUT	SHEET 1 OF 3
82		CT0310-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ORCHARD DR	LAYOUT	SHEET 2 OF 3
82		CT0311-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. ORCHARD DR	LAYOUT	SHEET 3 OF 3
				WYE (SUPERELEVATION TEMPL		
		CT0996-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 1 OF 4
		CT0997-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 2 OF 4
		CT0998-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 3 OF 4
		CT0999-A	BNSF - AVE 24 WYE A 1 -	GRADE SEPARATION AVE 24 WYE (PROFILES)	SUPERELEVATION TEMPLATE	SHEET 4 OF 4
1		CT1000-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 1 OF 3
1		CT1000 A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 2 OF 3
1		CT1002-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 9	PROFILE	SHEET 3 OF 3
2		CT1003-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 1 OF 3
2		CT1004-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	PROFILE	SHEET 2 OF 3
2		CT1005-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 10	PROF ILE	SHEET 3 OF 3
3		CT1006-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 1 OF 3
3		CT1007-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 2 OF 3
3		CT1008-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 11	PROFILE	SHEET 3 OF 3
4		CT1009-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	PROF ILE	SHEET 1 OF 3
4		CT1010-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	PROF ILE	SHEET 2 OF 3
4		CT1011-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 12	PROF ILE	SHEET 3 OF 3
5		CT1012-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 1 OF 3
5		CT1013-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	PROFILE	SHEET 2 OF 3
5		CT1014-A CT1015-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 13	PROFILE PROFILE	SHEET 3 OF 3
<u>6</u> 6		CT1015-A	BNSF MAIN LINE - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 GRADE SEPARATION - AVENUE 15	PROFILE PROFILE	SHEET 1 OF 3 SHEET 2 OF 3
6		CT1016-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15	PROFILE	SHEET 3 OF 3
7		CT1017 A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 1 OF 3
7		CT1019-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	PROFILE	SHEET 2 OF 3
7		CT1020-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 15 1/2	PROF ILE	SHEET 3 OF 3
9		CT1024-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	PROF ILE	SHEET 1 OF 3
9		CT1024-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 2 OF 3
9		CT1025 A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 17	PROFILE	SHEET 3 OF 3
11		CT1020 A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 1 OF 3
11		CT1031-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 26	PROF ILE	SHEET 2 OF 3
11		CT1032-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 26	PROFILE	SHEET 3 OF 3
12		CT1033-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	PROFILE	SHEET 1 OF 3
12		CT1034-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	PROF [LE	SHEET 2 OF 3
12		CT1035-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 21	PROF [LE	SHEET 3 OF 3
13		CT1036-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROF ILE	SHEET 1 OF 3
13		CT1037-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROF ILE	SHEET 2 OF 3
13		CT1038-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROFILE	SHEET 3 OF 3
16		CT1045-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SANTA FE AVE	PROFILE PROFILE	SHEET 1 OF 3
16		CT1046-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SANTA FE AVE	PROFILE PROFILE	SHEET 2 OF 3
16		CT1047-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SANTA FE AVE	PROFILE PROFILE	SHEET 3 OF 3
17		CT1048-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	PROFILE PROFILE	SHEET 1 OF 3
17 17		CT1049-A CT1050-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD	PROFILE PROFILE	SHEET 2 OF 3 SHEET 3 OF 3
			BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - BUCHANAN HOLLOW RD		
18 18		CT1051-A CT1052-A	BNSF MERCED CONNECTION - AVE24 WYE BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE GRADE SEPARATION - BURCHELL AVE	PROFILE PROFILE	SHEET 1 OF 3 SHEET 2 OF 3
18		CT1052-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	PROFILE PROFILE	SHEET 3 OF 3
10		CT1053-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - BURCHELL AVE	PROFILE	SHEET 1 OF 3
19						

	DESIGNED BY	
_	R. GIBSON	RECORD SET
	DRAWN BY	15% DESIGN
	F. DEMARCO	SUBMITTAL
	CHECKED BY	SUBMITTAL
Ī	A. SILVER	
_	IN CHARGE	NOT FOR
	A. BOONE	CONSTRUCTION
	DATE	
	07/27/2011	
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AECOM
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Sacramento, CA 958II
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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 GENERAL INDEX OF DRAWINGS SHEET 3 OF 5

CONTRACT NO.
HSR06-007
DRAWING NO.
B0112-A
SCALE
NONE

SHEET NO. ### OF ###

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74					
74					
71	UIIZI4-A	DINSE MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. BURCHELL AVE	FKUFILE	SHEEL 3 UF 3
74	CT1213-A CT1214-A	BNSF MERCED CONNECTION- AVE 24 WYE BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. BURCHELL AVE	PROFILE PROFILE	SHEET 2 OF 3 SHEET 3 OF 3
74	CT1212-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. BURCHELL AVE	PROFILE	SHEET 1 OF 3
73	CT1210-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE	SHEET 3 OF 3
73 73	CT1209-A CT1210-A	BNSF MERCED CONNECTION- AVE 24 WYE BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. CUNNINGHAM RD GRADE SEPARATION - S. CUNNINGHAM RD	PROFILE PROFILE	SHEET 1 OF 3 SHEET 2 OF 3
72	CT1208-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	PROFILE	SHEET 3 OF 3
72	CT1207-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - S. FRESNO RD	PROF ILE	SHEET 2 OF 3
72	CT1205-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	PROFILE	SHEET 1 OF 3
71 71	CT1204-A CT1205-A	BNSF MERCED CONNECTION- AVE 24 WYE BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD GRADE SEPARATION - LE GRAND RD	PROFILE PROFILE	SHEET 2 OF 3 SHEET 3 OF 3
71	CT1203-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - LE GRAND RD	PROF ILE	SHEET 1 OF 3
70	CT1202-A	BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - WHITE ROCK RD	PROF ILE	SHEET 3 OF 3
70 70	CT1200-A CT1201-A	BNSF MERCED CONNECTION- AVE 24 WYE BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - WHITE ROCK RD GRADE SEPARATION - WHITE ROCK RD	PROFILE PROFILE	SHEET 1 OF 3 SHEET 2 OF 3
70	CT1200 A		<u>.</u>	`	בוורד ז מר ז
VΉ	UIII45-A	_	24 WYE - ALT 01 (PROFILE		JIILLI I VI I
65 64	CT1148-A CT1149-A	BNSF MAIN LINE - AVE 24 WYE BNSF MERCED CONNECTION- AVE 24 WYE	GRADE SEPARATION - AVENUE 7 GRADE SEPARATION - G STREET	PROFILE PROFILE	SHEET 3 OF 3 SHEET 1 OF 1
65	CT1147-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 7	PROFILE	SHEET 2 OF 3
65	CT1146-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 7	PROF ILE	SHEET 1 OF 3
42	CT1144-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 9	PROFILE PROFILE	SHEET 3 OF 3
42 42	CT1143-A CT1144-A	BNSF MAIN LINE - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 9 GRADE SEPARATION - ROAD 9	PROFILE PROFILE	SHEET 1 OF 3 SHEET 2 OF 3
41	CT1142-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 10	PROFILE	SHEET 3 OF 3
41	CT1140 A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION ROAD 10	PROFILE	SHEET 2 OF 3
40 41	CT1139-A CT1140-A	BNSF MAIN LINE - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 13 GRADE SEPARATION - ROAD 10	PROFILE PROFILE	SHEET 3 OF 3 SHEET 1 OF 3
40	CT1138-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 13	PROF ILE	SHEET 2 OF 3
40	CT1137-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION ROAD 14	PROFILE	SHEET 1 OF 3
39 39	CT1135-A CT1136-A	BNSF MAIN LINE - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 14 GRADE SEPARATION - ROAD 14	PROFILE PROFILE	SHEET 2 OF 3 SHEET 3 OF 3
39	CT1134-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 14	PROFILE	SHEET 1 OF 3
38	CT1133-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 15	PROF ILE	SHEET 3 OF 3
38 38	CT1131-A CT1132-A	BNSF MAIN LINE - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 15 GRADE SEPARATION - ROAD 15	PROFILE PROFILE	SHEET 2 OF 3
37	CT1130-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 16	PROFILE	SHEET 3 OF 3 SHEET 1 OF 3
37	CT1129-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 16	PROF ILE	SHEET 2 OF 3
37	CT1128-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 16	PROF ILE	SHEET 1 OF 3
36 36	CT1126-A CT1127-A	BNSF MAIN LINE - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 23 1/2 GRADE SEPARATION - AVENUE 23 1/2	PROFILE PROFILE	SHEET 2 OF 3 SHEET 3 OF 3
36	CT1125-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 23 1/2	PROFILE	SHEET 1 OF 3
35	CT1124-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 22	PROF [LE	SHEET 3 OF 3
35	CT1122 A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION ROAD 22	PROFILE	SHEET 2 OF 3
34 35	CT1121-A CT1122-A	BNSF MAIN LINE - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24 GRADE SEPARATION - ROAD 22	PROFILE PROFILE	SHEET 3 OF 3 SHEET 1 OF 3
34	CT1120-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROFILE PROFILE	SHEET 2 OF 3
34	CT1119-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ROAD 24	PROF ILE	SHEET 1 OF 3
33	CT1118-A	BNSF MAIN LINE - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20 1/2 GRADE SEPARATION - AVENUE 20 1/2	PROFILE PROFILE	SHEET 3 OF 3
33	CT1116-A CT1117-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20 1/2	PROFILE PROFILE	SHEET 1 OF 3 SHEET 2 OF 3
32	CT1115-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20	PROF ILE	SHEET 3 OF 3
32	CT1114-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 20	PROFILE	SHEET 2 OF 3
31 32	CT1112-A CT1113-A	BNSF WYE CONNECTION - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24 GRADE SEPARATION - AVENUE 20	PROFILE PROFILE	SHEET 3 OF 3 SHEET 1 OF 3
31	CT1111-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROFILE	SHEET 2 OF 3
31	CT1110-A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROF ILE	SHEET 1 OF 3
30	CT1108 A	BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION ROAD 21	PROFILE	SHEET 3 OF 3
30 30	CT1107-A CT1108-A	BNSF WYE CONNECTION - AVE 24 WYE BNSF WYE CONNECTION - AVE 24 WYE	GRADE SEPARATION - ROAD 21 GRADE SEPARATION - ROAD 21	PROFILE PROFILE	SHEET 1 OF 3 SHEET 2 OF 3
29	CT1106-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	PROF I LE	SHEET 4 OF 4
29	CT1105-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26	PROFILE	SHEET 3 OF 4
29 29	CT1103-A CT1104-A	BNSF MAIN LINE - AVE 24 WYE BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 26 GRADE SEPARATION - AVENUE 26	PROFILE PROFILE	SHEET 1 OF 4 SHEET 2 OF 4
28	CT1102-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROFILE	SHEET 3 OF 3
28	CT1101-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 24	PROF ILE	SHEET 2 OF 3
28	CT1100-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - ANDOLEDA DA	PROFILE PROFILE	SHEET 1 OF 3
20 20	CT1058-A CT1059-A	BNSF MERCED CONNECTION - AVE24 WYE BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR GRADE SEPARATION - ARBOLEDA DR	PROFILE PROFILE	SHEET 2 OF 3 SHEET 3 OF 3
20	CT1057-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - ARBOLEDA DR	PROFILE	SHEET 1 OF 3
19	CT1056-A	BNSF MERCED CONNECTION - AVE24 WYE	GRADE SEPARATION - PLAINSBURG RD	PROFILE	SHEET 3 OF 3

DRAWING TITLE

LINE 4

GRADE SEPARATION - PLAINSBURG RD GRADE SEPARATION - PLAINSBURG RD

DRAWING TITLE DRAWING TITLE

LINE 6

SHEET 2 OF 3 SHEET 3 OF 3

LINE 5

PROFILE

R. GIBSON DRAWN BY F. DEMARCO CHECKED BY A. SILVER IN CHARGE A. BOONE DATE 07/27/2011 12/12/2011 RG REV DATE BY CHK APP DESCRIPTION

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

LOCATION SHT DWG

NO.

NO.

CT1055-A CT1056-A

NO.

DRAWING TITLE

LINE 3

BNSF MERCED CONNECTION - AVE24 WYE BNSF MERCED CONNECTION - AVE24 WYE

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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 GENERAL INDEX OF DRAWINGS SHEET 4 OF 5

CONTRACT NO.
HSR06-007
DRAWING NO.
B0113-A
SCALE

NONE ### OF ###

12/12/2011 RG

BY CHK APP

DESCRIPTION

REV DATE

DESIGNED BY R. GIBSON	RECORD SET
F. DEMARCO CHECKED BY	15% DESIGN Submittal
A. SILVER IN CHARGE A. BOONE	NOT FOR CONSTRUCTION
A. DOONL	1 COMPIRECTION

07/27/2011

|LOCATION|SHT| DWG

NO.

NO.

CT1250-A CT1251-A

CT1252-A

CT1254-A

CT1255-A

CT1256-A

CT1257-A

CT1258-A

CT1259-A

CT1260-A

CT1261-A

CT1301-A

CT1302-A

CT1303-A

CT1304-A

CT1305-A

CT1306-A

CT1307-A

CT1308-A

CT1309-A

CT1310-A

NO.





DRAWING TITLE

LINE 4

GRADE SEPARATION - LE GRAND RD
GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. FRESNO RD
GRADE SEPARATION - S. CUNNINGHAM RD

GRADE SEPARATION - S. CUNNINGHAM RD

GRADE SEPARATION - S. CUNNINGHAM RD
GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - S. SANTA FE AVE

GRADE SEPARATION - S. SANTA FE AVE

GRADE SEPARATION - S. SANTA FE AVE

GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - S. ARBOLEDA RD

GRADE SEPARATION - S. ARBOLEDA RD

GRADE SEPARATION - S. ARBOLEDA RD
GRADE SEPARATION - S. ORCHARD DR

GRADE SEPARATION - S. ORCHARD DR GRADE SEPARATION - S. ORCHARD DR

MC - A1 - AVE 24 WYE - ALT 02 (PROFILES)

MC - A1 - AVE 24 WYE - ALT 03 (PROFILES)

DRAWING TITLE

LINE 3

BNSF MERCED CONNECTION- AVE 24 WYE

DRAWING TITLE DRAWING TITLE

LINE 6

SHEET 1 OF 3

SHEET 2 OF 3

SHEET 3 OF 3

SHEET 2 OF 3

SHEET 3 OF 3 SHEET 1 OF 3

SHEET 2 OF 3

SHEET 3 OF 3

SHEET 1 OF 3 SHEET 2 OF 3

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LINE 5

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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 GENERAL INDEX OF DRAWINGS SHEET 5 OF 5

CONTRACT NO.
HSR06-007
DRAWING NO.
B0114-A
SCALE
NONE
SHEET NO.

OF

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—--- SD ———---

—--TC———--

— P12 ——

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PΙ POINT OF INTERSECTION OF TWO TANGENTS

POC POINT ON CURVE POT POINT ON TANGENT

POINT OF REVERSE CURVES РΤ POINT OF TANGENCY

R RADIUS OF CURVATURE IN FEET

DESIGN VELOCITY IN MILES PER HOUR

VERTICAL

PVC POINT OF VERTICAL CURVE (BEGINNING OF CURVE) PVI POINT OF VERTICAL INTERSECTION (OF TANGENTS) PVT POINT OF VERTICAL TANGENCY (ENDING OF CURVE)

VC VERTICAL CURVE

MISCELLANEOUS

BEG BEGIN BLVD BOULEVARD CENTER LINE Œ CENTERLINE, CLASS CL CLR CLEAR

COL COLUMN DWG DRAWING EQUATION ΕQ EXISTING EXIST(E) INCH ΙN LT LEFT

MAXMAXIMUM MINIMUM MIN NORTH Ν NB NORTH BOUND

NTS NOT TO SCALE OG ORIGINAL GROUND O/H OH OVERHEAD

PACIFIC GAS & ELECTRIC PG&E PGL, FG PROFILE GRADE LINE

RAILROAD RD ROAD R/W RIGHT OF WAY

RT RIGHT SS SANITARY SEWER

SHT SHEET ST STREET STD STANDARD SD STORM DRAIN STRUCT, STR STRUCTURE TELEPHONE

(OH) OVERHEAD LINE (UG) UNDERGROUND LINE

TOR TOP OF RAIL ΤK TRACK

TYP TYPICAL

TBD TO BE DETERMINED TELECOMMUNICATIONS FIBER TF

OPTIC

V VERT VERTICAL WATER, WEST MATCH LINE

HST TRACK

PROPOSED HST RIGHT-OF-WAY

FREIGHT/PASSENGER TRACK - EXISTING

EXISTING

RIGHT-OF-WAY

EXISTING BRIDGE FEATURES

RETAINING WALLS

ORIGINAL GROUND

GAS LINE (16")

COMMUNICATION LINE

WATER LINE

FIBER OPTIC LINE

ELECTRICAL LINE

ELECTRICAL TOWER

SEWER LINE

STORM DRAIN LINE

FUEL LINE

TELEPHONE LINE

PETROLEUM LINE (12")

OVERHEAD

NORTH ARRROW

PVI

7/3							
							DESIGNED BY R. LI
\vdash							DRAWN BY A. TRINH
\vdash	+						CHECKED BY J. ZANDIAN
	1						IN CHARGE A. BOONE
RE	٧	DATE	BY	СНК	APP	DESCRIPTION	DATE 07/20/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR

CONSTRUCTION





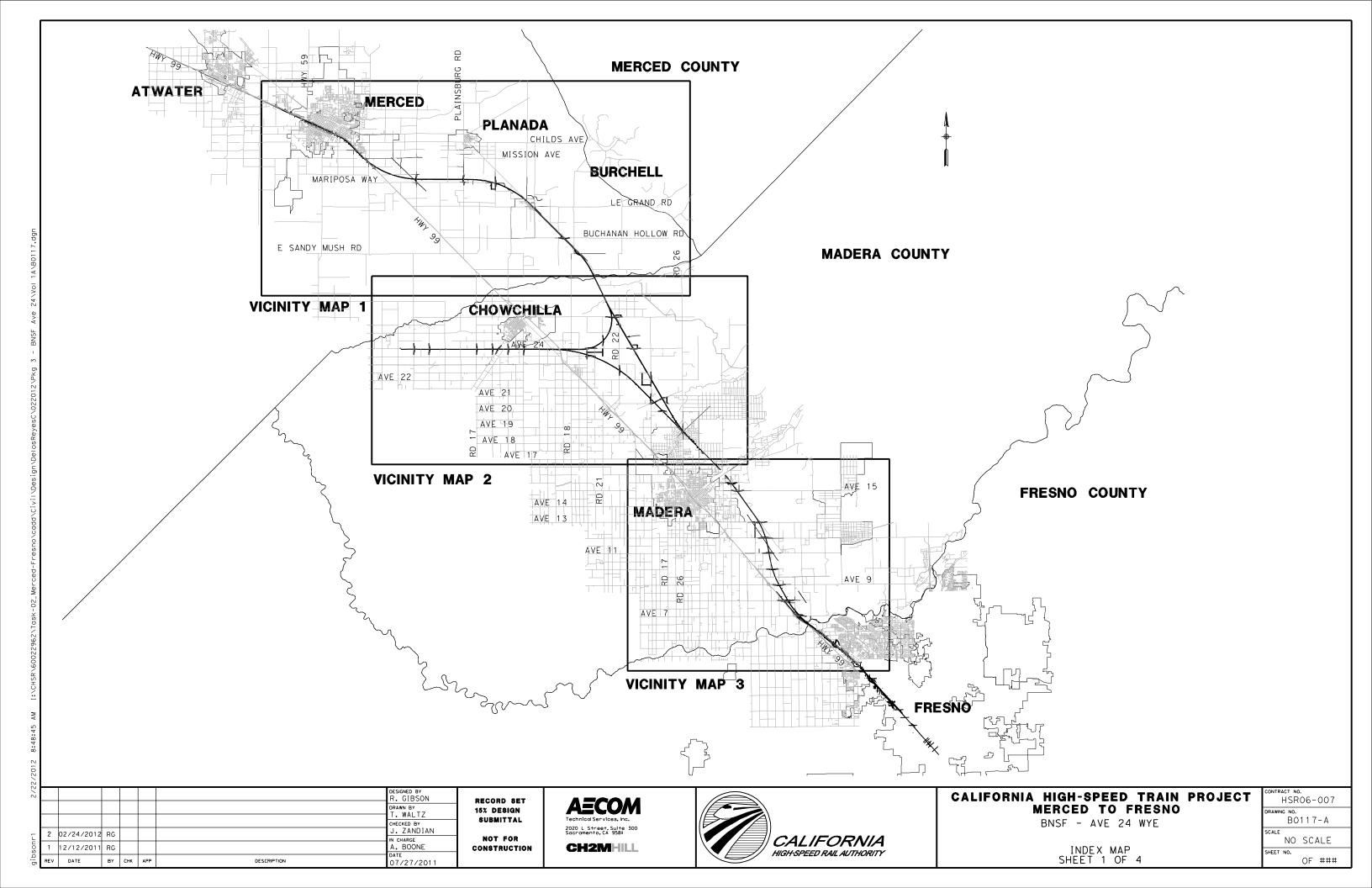
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

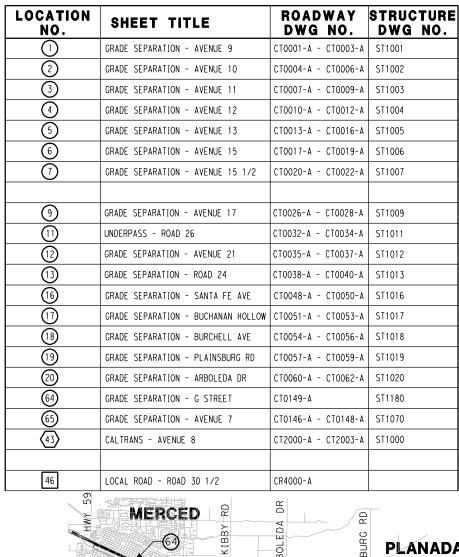
BNSF - AVE 24 WYE **GENERAL** ABBREVIATIONS, SYMBOLS & NOTES SHEET 1 OF 1

CONTRA	HSR06-007							
DRAWIN	B0116-A							
SCALE	NO SCALE							

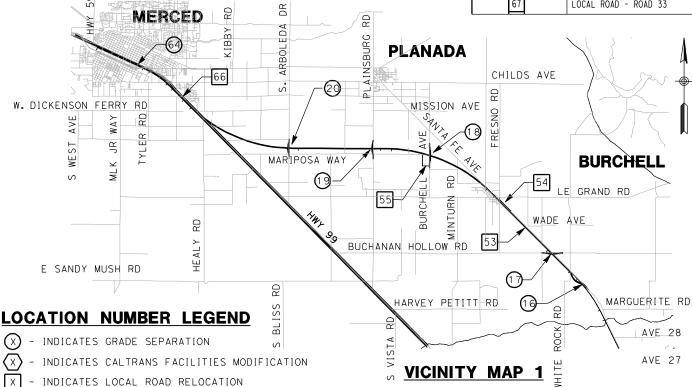
OF

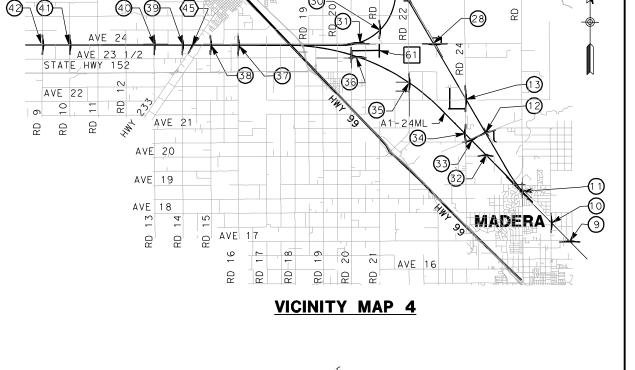
SHEET NO.





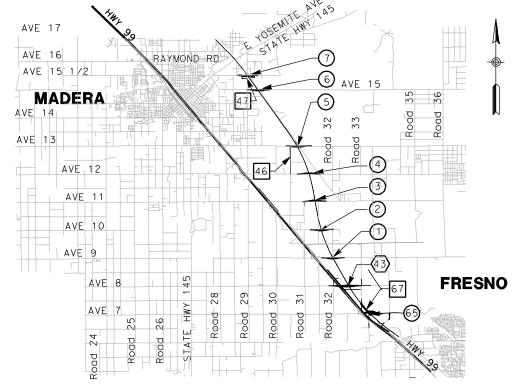
LOCATION No.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
47	LOCAL ROAD - ROAD 29	CR4001-A	
53	LOCAL ROAD - SANTA FE AVE	CR4007-A - CR4009-A	
54	LOCAL ROAD - SANTA FE AVE (SOUTH)	CR4009-A	
55	LOCAL ROAD - BURCHELL RD	CR4010-A	
28	GRADE SEPARATION - AVENUE 24	CT0100-A - CT0102-A	ST1030
29	GRADE SEPARATION - AVENUE 26	CT0103-A - CT0106-A	ST1031 - ST1032
30	GRADE SEPARATION - ROAD 21	CT0107-A - CT0109-A	ST1033
31)	GRADE SEPARATION - AVENUE 24	CT0110-A - CT0112-A	ST1034
32	GRADE SEPARATION - AVENUE 20	CT0113-A - CT0115-A	ST1035
33	GRADE SEPARATION - AVENUE 20 1/2	CT0116-A - CT0118-A	ST1036 - ST1037
34)	GRADE SEPARATION - ROAD 24	CT0119-A - CT0121-A	ST1038 - ST1039
35)	GRADE SEPARATION - ROAD 22	CT0122-A - CT0124-A	ST1040
<u>36</u>	GRADE SEPARATION - AVENUE 23 1/2	CT0125-A - CT0127-A	ST1041
37	GRADE SEPARATION - ROAD 16	CT0128-A - CT0130-A	ST1042
38	GRADE SEPARATION - ROAD 15	CT0131-A - CT0133-A	ST1043
39	GRADE SEPARATION - ROAD 14	CT0134-A - CT0136-A	ST1044
40	GRADE SEPARATION - ROAD 13	CT0137-A - CT0139-A	ST1045
4 1)	GRADE SEPARATION - ROAD 10	CT0140-A - CT0142-A	ST1046
42	GRADE SEPARATION - ROAD 9	CT0143-A - CT0145-A	ST1047
4 5	CALTRANS - SR 233	CT0210-A - CT0212-A	ST1150
61	LOCAL ROAD - AVENUE 23 1/2	CR4100-A - CR4101-A	
66	LOCAL ROAD - PROP W. FRONTAGE RD	CR4016-A - CR4017-A	
67	LOCAL ROAD - ROAD 33	CR4018-A	





AVE 26

CHOWCHILLA



VICINITY MAP 3

FOR ROADWAY STRUCTURES SEE STRUCTURAL INDEX MAPS

	•					
						DESIGNED BY R. GIBSON
						DRAWN BY T. WALTZ
						CHECKED BY
2	02/24/2012	RG				J. ZANDIAN IN CHARGE
1	12/12/2011	RG				A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 07/27/2011

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RECORD SET

AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 WYE

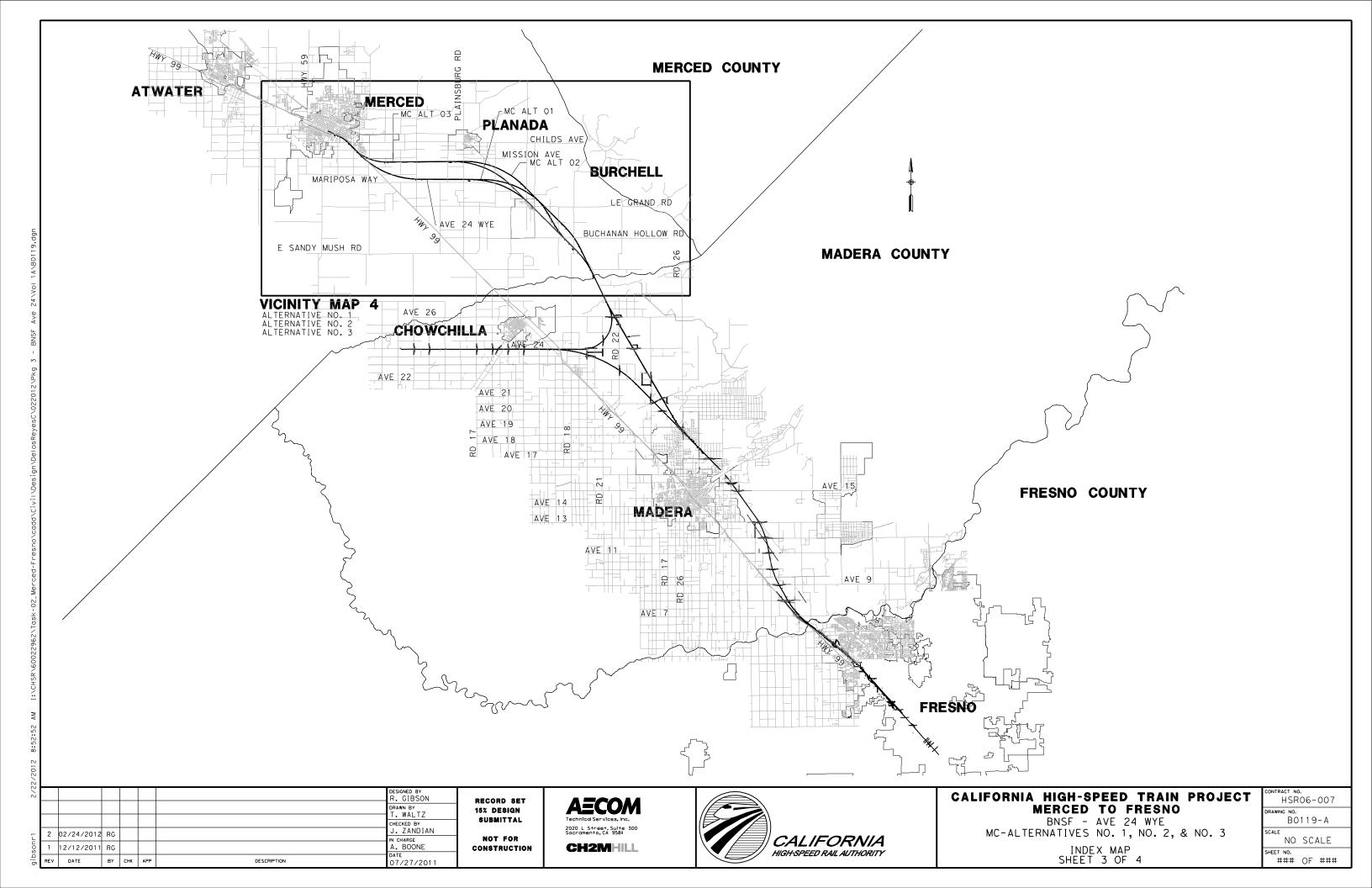
INDEX MAP SHEET 2 OF 4

CONTRACT NO. HSR06-007						
DRAWING NO. BO118-A						
SCALE AS SHOWN						
SHEET NO.						

18000

9000

GRAPHIC SCALE



						DESIGNED BY R. GIBSON DRAWN BY
						T. WALTZ CHECKED BY J. ZANDIAN
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 07/27/2011

LOCATION

NO.

(71)

(72)

(73)

(74)

(75)

(76)

(77)

(78)

(79)

(80)

(81)

82)

MERCED

SHEET TITLE

GRADE SEPARATION - WHITE ROCK RD

GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. CUNNINGHAM RD

GRADE SEPARATION - S. BURCHELL AVE

GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. CUNNINGHAM RD

GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - S. SANTA FE AVE

GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - S. ARBOLEDA RD

GRADE SEPARATION - S. ORCHARD DR

LOCAL ROAD - WHITE ROCK

LOCAL ROAD - BURCHELL

LOCAL ROAD - FRESNO

LOCAL ROAD - SANTA FE

MARIPOSA WAY

BLISS

ALTERNATIVE MC-01

RECORD SET 15% DESIGN SUBMITTAL NOT FOR

CONSTRUCTION

ROADWAY STRUCTURE

ST1051

ST1052

ST1053

ST1054

ST1055

ST1056

ST1057

ST1058

ST1060

≥ CHILDS AVE

DWG NO.

DWG NO.

CT0203-A - CT0205-A

T0206-A - CT0208-A

T0209-A - CT0211-A

T0212-A - CT0214-A

T0250-A - CT0252-A

T0253-A - CT0255-A

T0256-A - CT0258-A

T0259-A - CT0261-A

T0303-A - CT0305-A

CR4200-A - CR4201-A

CR4300-A - CR4301-A

CR4202-A

CR4250-A

PLANADA

BUCHANAN & HOL_OW RD

HARVEY PETITT RD

MISSION AVE

TO300-A - CTO302-A ST1059

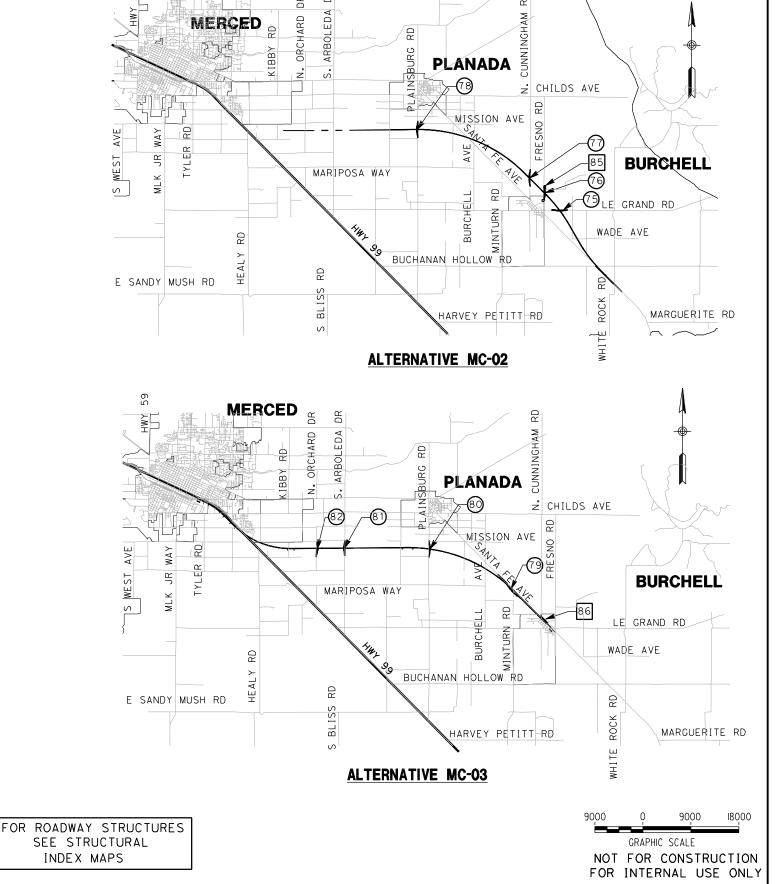
CTO306-A - CTO308-A ST1061

CTO309-A - CTO311-A ST1062

CT0200-A - CT0202-A ST1050

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL





LOCATION NUMBER LEGEND

2

E SANDY MUSH RD

S

(X) - INDICATES GRADE SEPARATION X - INDICATES CALTRANS FACILITIES MODIFICATION

X - INDICATES LOCAL ROAD RELOCATION

BURCHELL

MARGUERITE RD

LE GRAND RD

WADE AVE

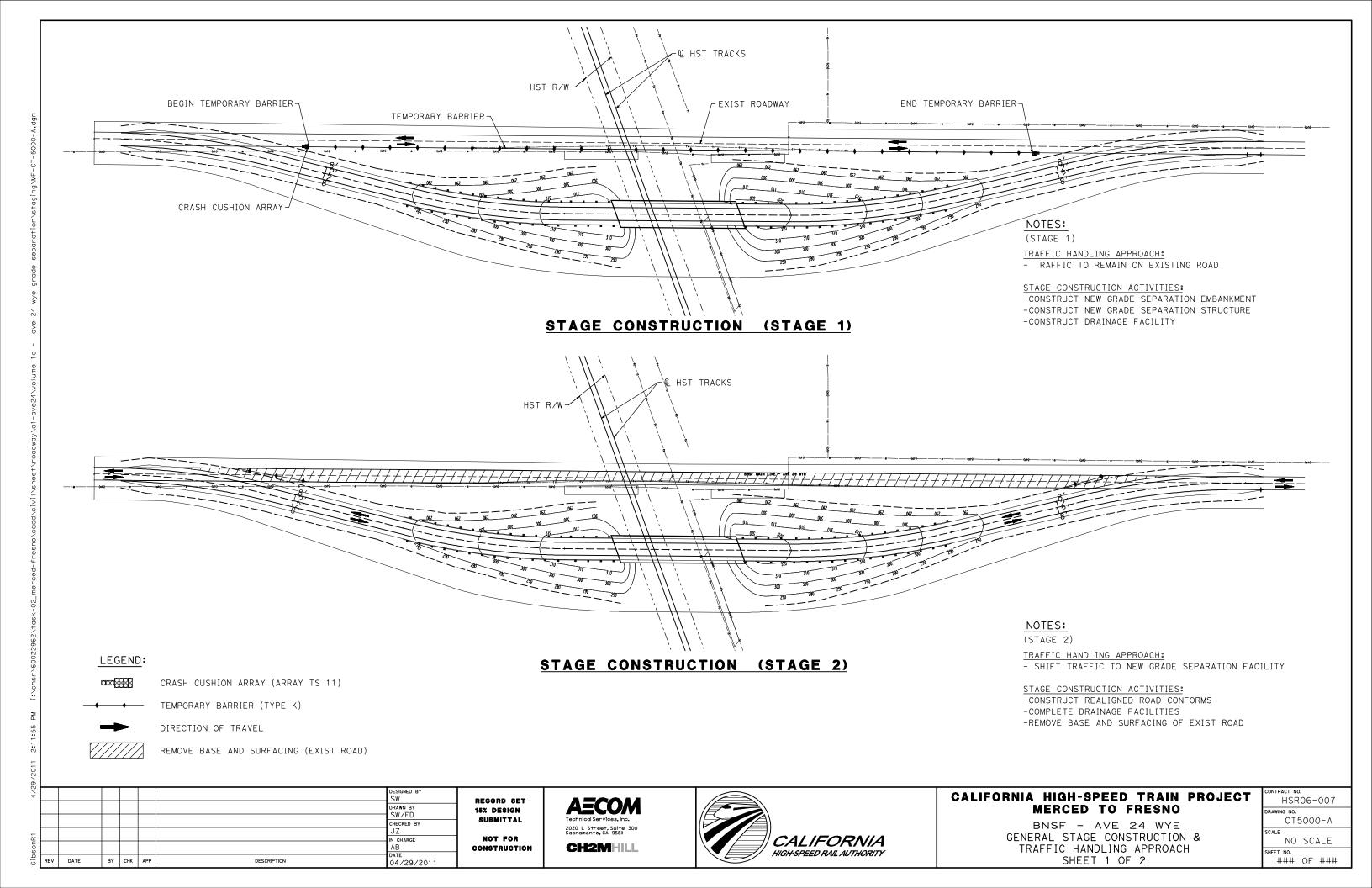
RD

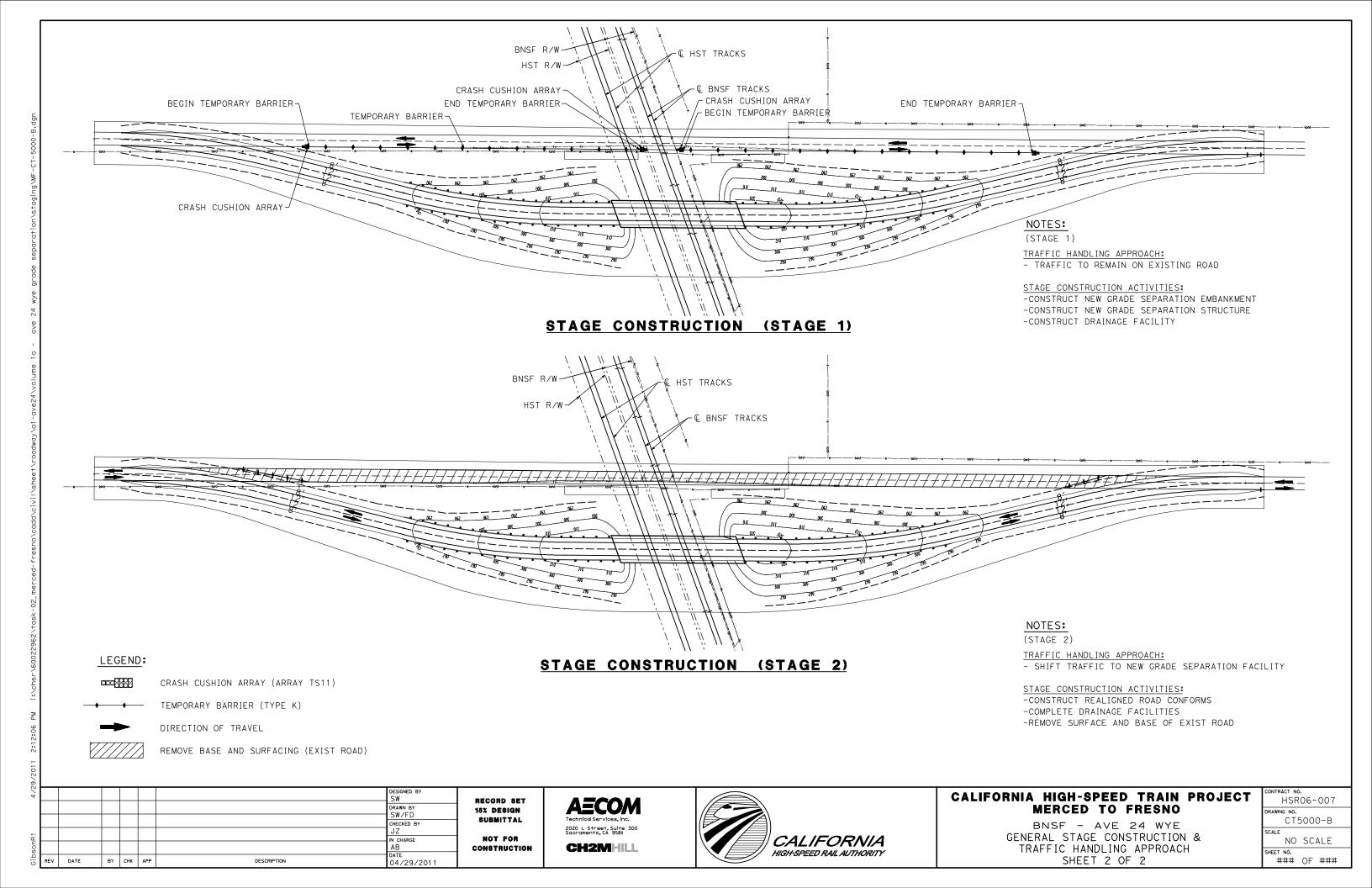
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

SHEET 4 OF 4

BNSF - AVE 24 WYE ALTERNATIVES NO. 1, NO. 2, & NO. 3 INDEX MAP

HSR06-007 B0120-A NO SCALE ### OF ###





LOCATION 1

AVE 9

NTS

NOTE:

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Sulte 300
Sacramento, CA 95811
CH2MHILL

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1000-A THROUGH CT1002-A.



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 9 LAYOUT SHEET 1 OF 3

7	contract no. HST06-007
	DRAWING NO. CTOOO1-A
	SCALE

CURVE DATA

② 5000.00′ 6°52′32" 300.36′ 600.00′ 45 MPH

300.36′ 600.00′ 45 MPH

① 5000.00′ 6°52′32"

SCALE
AS SHOWN
SHEET NO.
OF



1/2

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE BY CHK APP DESCRIPTION 04/29/2011

LOCATION 1

AVE 9

NTS

NOTE:

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

RECORD SET

AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

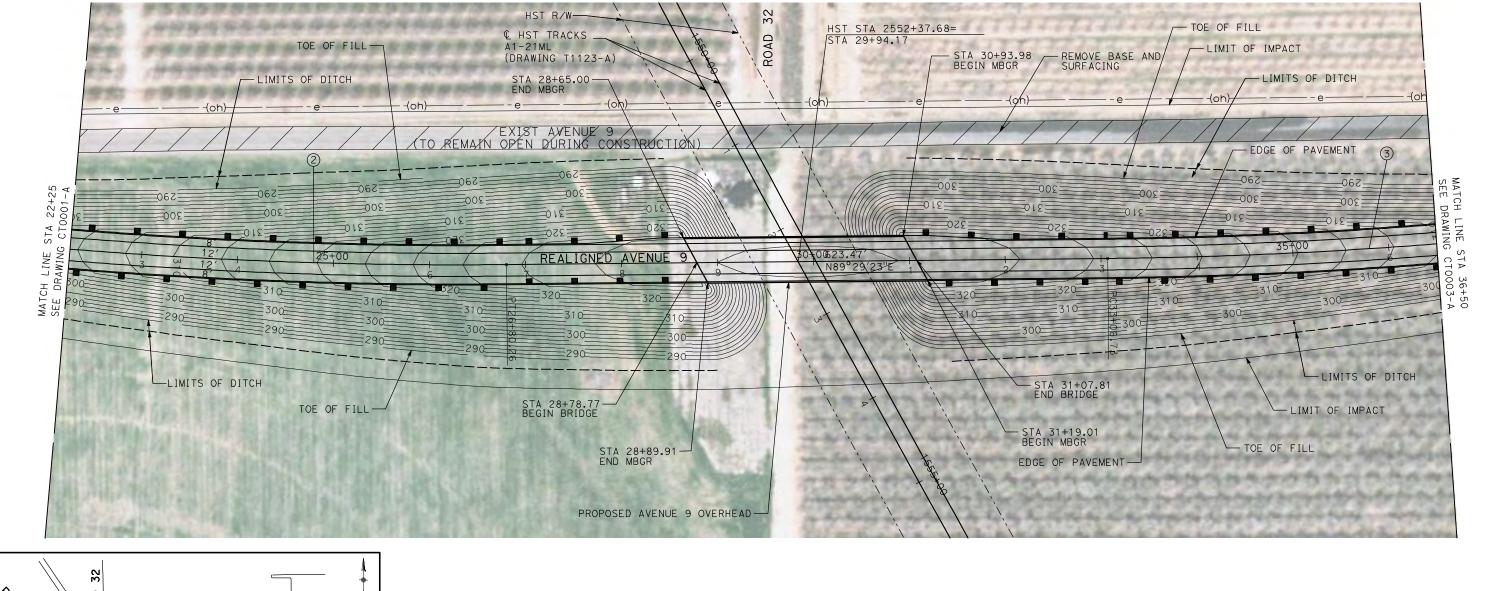
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1000-A THROUGH CT1002-A.





BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION -LAYOUT SHEET 2 OF

7	CONTRACT NO. HST06-007						
	DRAWIN		0002-A				
	SCALE	AS	SHOWN				



AVENUE 9	AS SHOWN
3	SHEET NO. ### OF ###
<u> </u>	91

CURVE DATA

3 5000.00' 6°52'32" 300.36' 600.00' 45 MPH

300.36′ 600.00′ 45 MPH

② 5000.00′ 6°52′32"

NTS LOCATION 1 AVE 9 NOTE: 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1000-A THROUGH CT1002-A. DESIGNED BY R. GIBSON **AECOM** RECORD SET DRAWN BY H. PHAN 15% DESIGN SUBMITTAL CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR IN CHARGE A. BOONE CALIFORNIA CH2MHILL LAYOUT CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 3 OF 3 BY CHK APP DESCRIPTION 04/29/2011

REMOVE BASE AND SURFACING EDGE OF PAVEMENT-LIMITS OF DITCH — EXIST AVENUE 9 TOE OF FILL

4 5000.00' 6°52'32" 300.36' 600.00' 45 MPH

CURVE DATA

3 5000.00' 6°52'32" 300.36' 600.00' 45 MPH

CALIFORNIA HIGH-SPEED TRAIN PROJECT CONTRACT NO. HST06-007 MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 9

113100 007
DRAWING NO.
CT0003-A
SCALE
AS SHOWN
SHEET NO.
OF

R. GIBSON RAWN BY CHECKED BY
J. ZANDIAN n charge A. BOONE 12/28/11 DESCRIPTION

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

2020 L Street, Suite 300 Socramento, CA 95811 CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

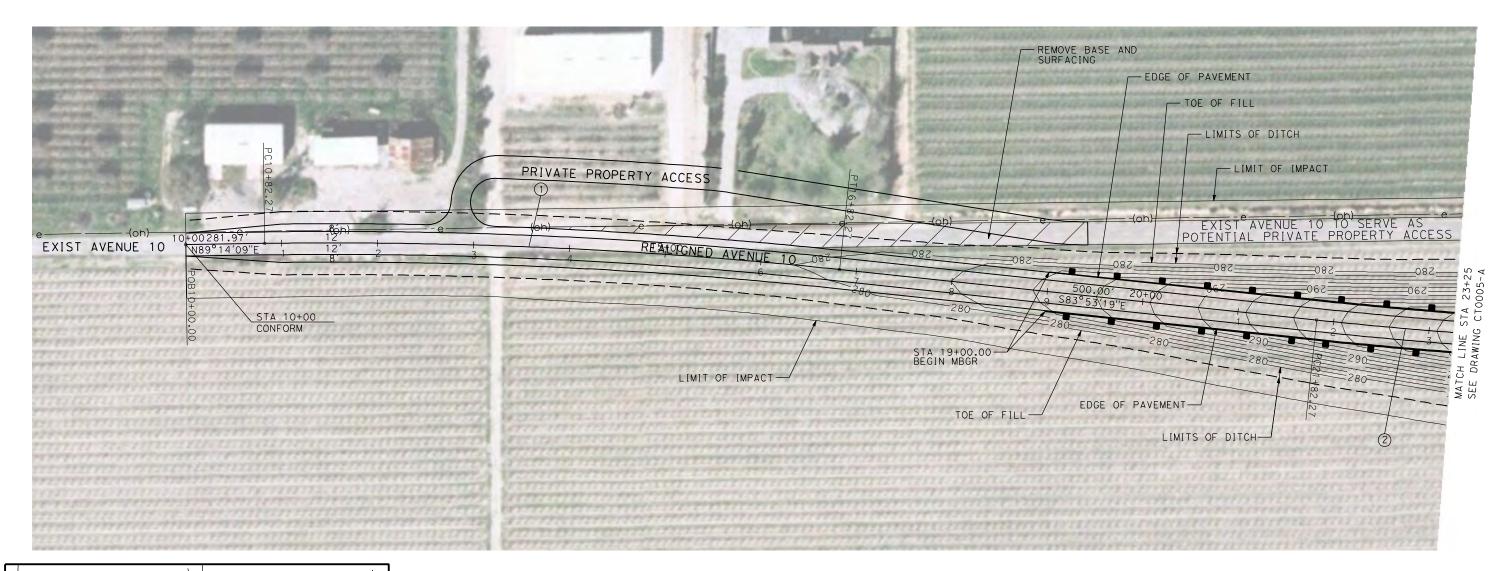
BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 10 LAYOUT SHEET 1 OF 3

Г	HST06-007
	DRAWING NO. CTOOO4-A
	SCALE

CURVE DATA

① 5000.00' 6°52'32" 300.36' 600.00' 45 MPH ② 5000.00′ 6°52′32" 300.36′ 600.00′ 45 MPH

> AS SHOWN SHEET NO. ### OF ###



1. FOR PROFILES, SEE DRAWINGS CT1003-A THROUGH CT1005-A.

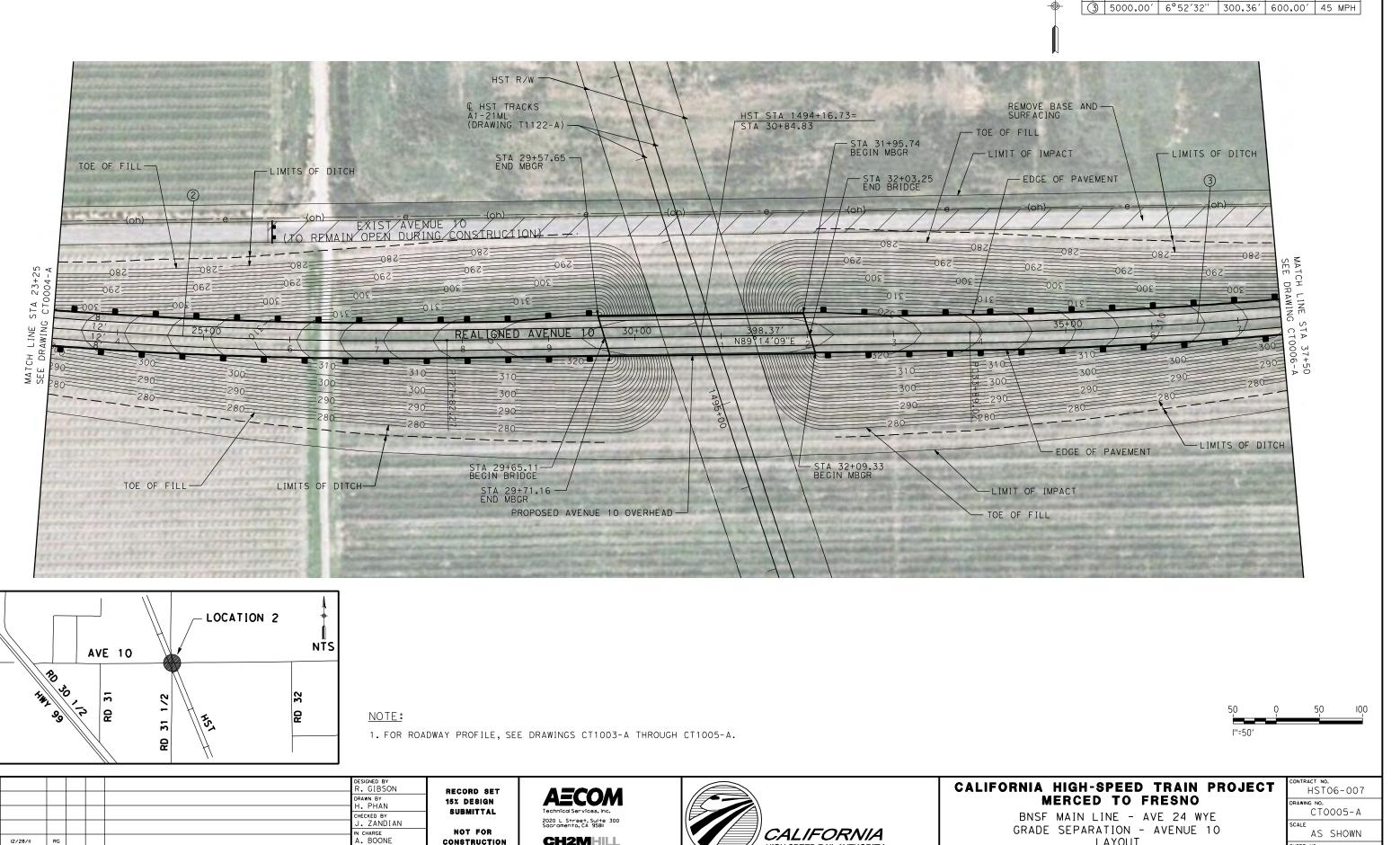
LOCATION 2 NTS AVE 10





12/28/11

DESCRIPTION



HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

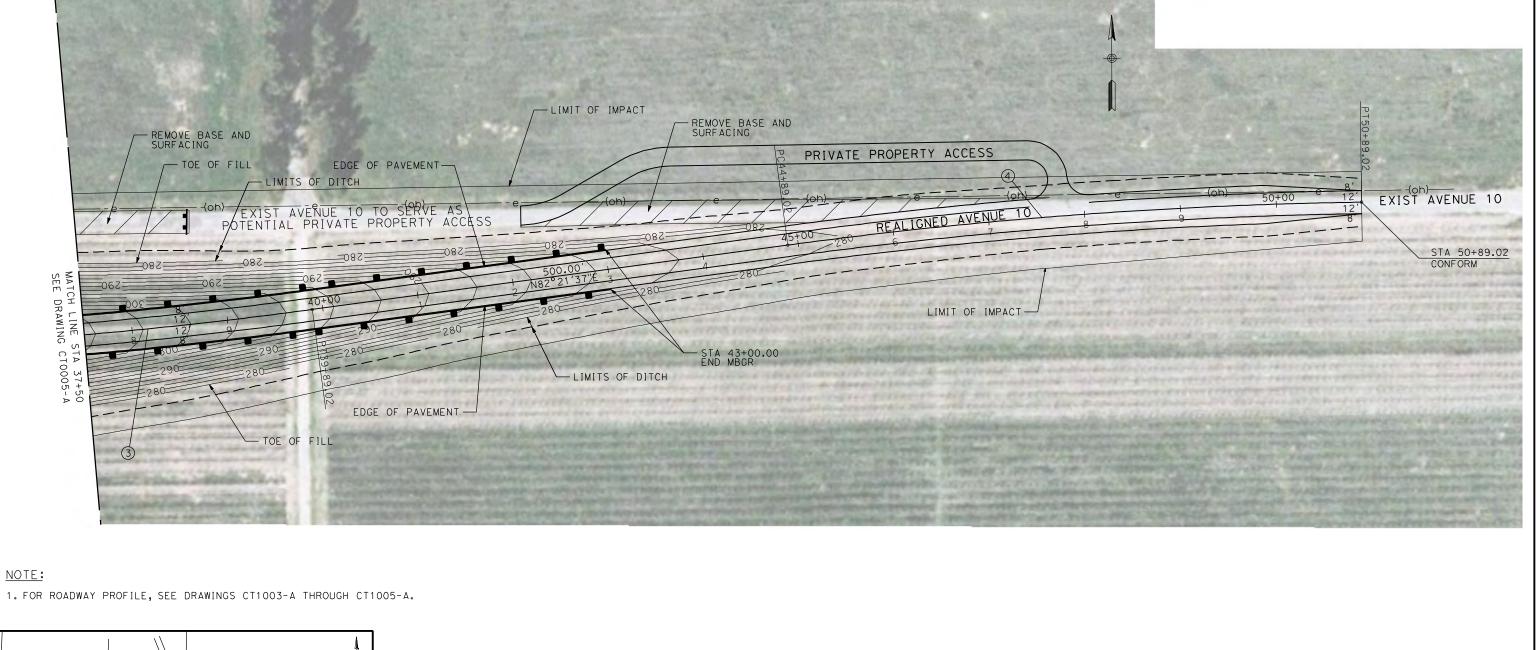
CURVE DATA

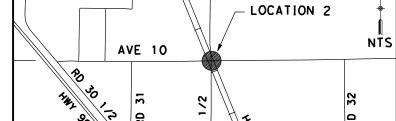
LAYOUT

SHEET 2 OF 3

OF

300.36' 600.00' 45 MPH





0 50 100 =50°

 CURVE DATA

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 ③
 5000.00′
 6°52′32″
 300.36′
 600.00′
 45 MPH

 ④
 5000.00′
 6°52′32″
 300.36′
 600.00′
 45 MPH

						DESIGNED BY R. GIBSON DRAWN BY H. PHAN
						CHECKED BY J. ZANDIAN IN CHARGE
ì	12/28/11	RG				A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 10
LAYOUT
SHEET 3 OF 3

	CONTRACT NO.
	HST06-007
ı	DRAWING NO.
ı	CT0006-A
ı	SCALE
ı	AS SHOWN

SHEET NO. ### OF ###

| DESIGNED BY R. GIBSON | DRAWN BY | H. PHAN | CHECKED BY | J. ZANDIAN | IN CHARGE | A. BOONE | DATE | BY CHK | APP | DESCRIPTION | DATE | DATE | DATE | O7/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

LIMITS OF DITCH-

TOE OF FILL

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 11 LAYOUT SHEET 1 OF 3

Г	CONTRACT NO. HST06-007
	DRAWING NO. CTOOO7-A
	SCALE AS SHOWN

CURVE DATA

① 5000.00′ 6°52′32" 300.36′ 600.00′ 45 MPH ② 5000.00′ 6°52′32" 300.36′ 600.00′ 45 MPH

Δ

CTOOO7-A

SCALE

AS SHOWN

SHEET NO.

OF

		LIMIT OF IMPACT —	EDGE OF PAVEMENT	082 DR
				082 062 WIN
			782	CTO
7.55		1		280 280 280 280 280
			1 280 280 280 280	280
	AND AND DISTRICT CONTRACTOR OF THE PARTY OF	REALIGNED AVENUE 1		
EXIS AVE 1	10+00 12' 284.09' 1 12' 1 N89°17'15"E 2 3	15+00	EXIST AVENUE 11 / YOU REMAIN OPEN DURING CONSTRUCTION)	
AVE	8	Д		LIMITS OF DITCH
N. SEE	PD PD PD PD PD PD PD PD PD PD PD PD PD P		STA 23+00.00 BEGIN MBGR	
45-1	STA 10+00 CONFORM		EDGE OF PAVEMENT	REMOVE BASE AND— SURFACING
200			LIMIT OF IMPACT	TOE OF FILL
110				
1317				
300	AND REAL PROPERTY OF THE PROPE	10 11 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	111111111111111111
	\\ A			
75				
RD 30 1/2	LOCATION 3 NTS			
80 E				
	AVE II			50 0 50 100
		OTE:		
	2 N N N N N N N N N	FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A.		50
		DTE: FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A.		50 0 50 III

LOCATION 3-

AVE 11

DESIGNED BY R. GIBSON RAWN BY CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE 12/28/11 BY CHK APP DESCRIPTION 07/27/2011

31

8

SUBMITTAL NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

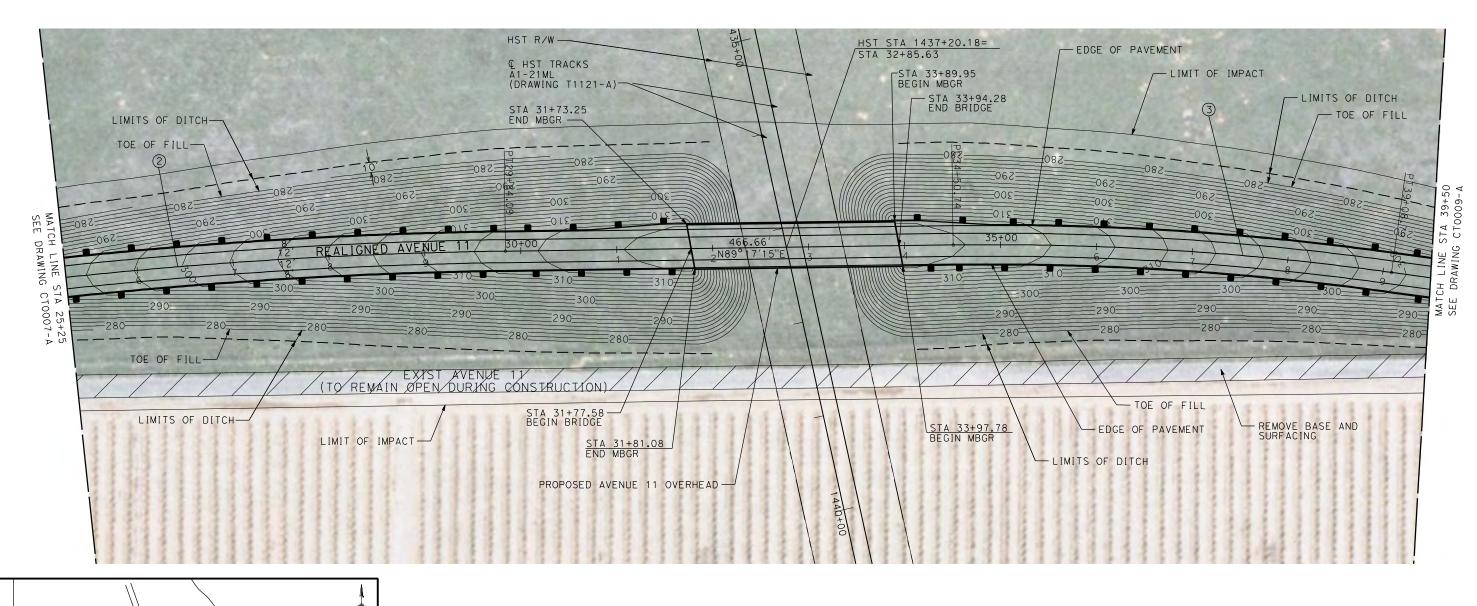
BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 11 LAYOUT SHEET 2 OF 3

Γ	CONTRA		06-007
	DRAWIN		A-8000
	SCALE	AS	SHOWN

SHEET NO. ### OF ###

CURVE DATA

② 5000.00′ 6°52′32" 300.36′ 600.00′ 45 MPH 3 3000.00' 8°44'53" 229.47' 458.05' 45 MPH



1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A. RECORD SET 15% DESIGN

NTS





LOCATION 3-

AVE 11

| DESIGNED BY R. GIBSON | DRAWN BY | H. PHAN | CHECKED BY J. ZANDIAN | IN CHARGE | A. BOONE | DATE | BY CHK | APP | DESCRIPTION | D7/27/2011

NTS

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

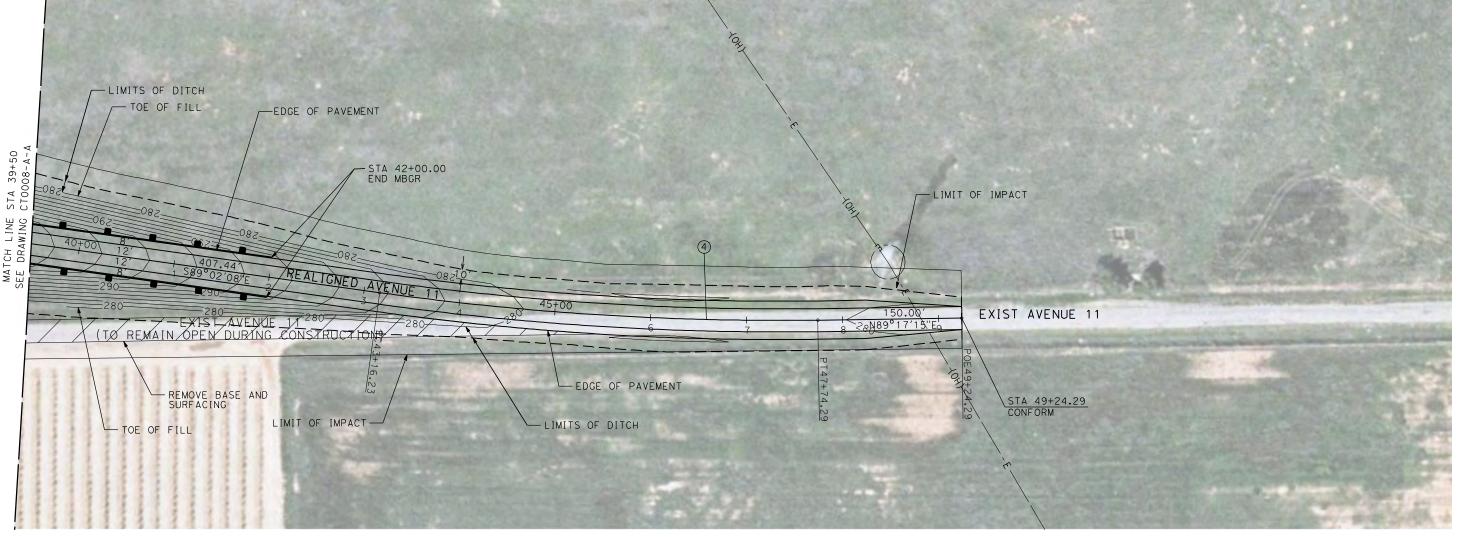
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacromento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

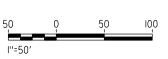
BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 11 LAYOUT SHEET 3 OF 3

T	HST06-007
	DRAWING NO. CTOOO9-A
	scale AS SHOWN
	SHEET NO. ### OF ###



NOTE:

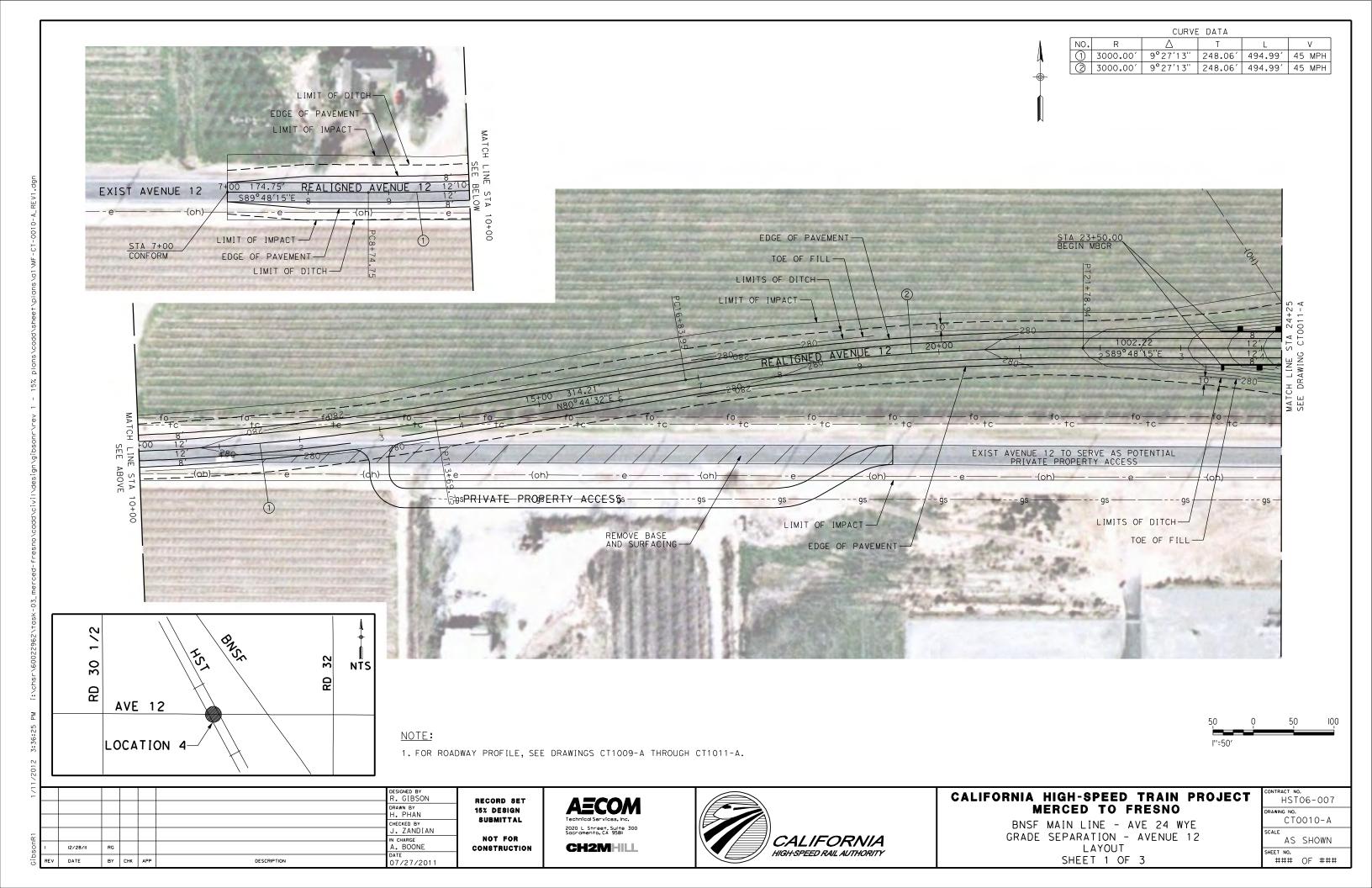
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1006-A THROUGH CT1008-A.

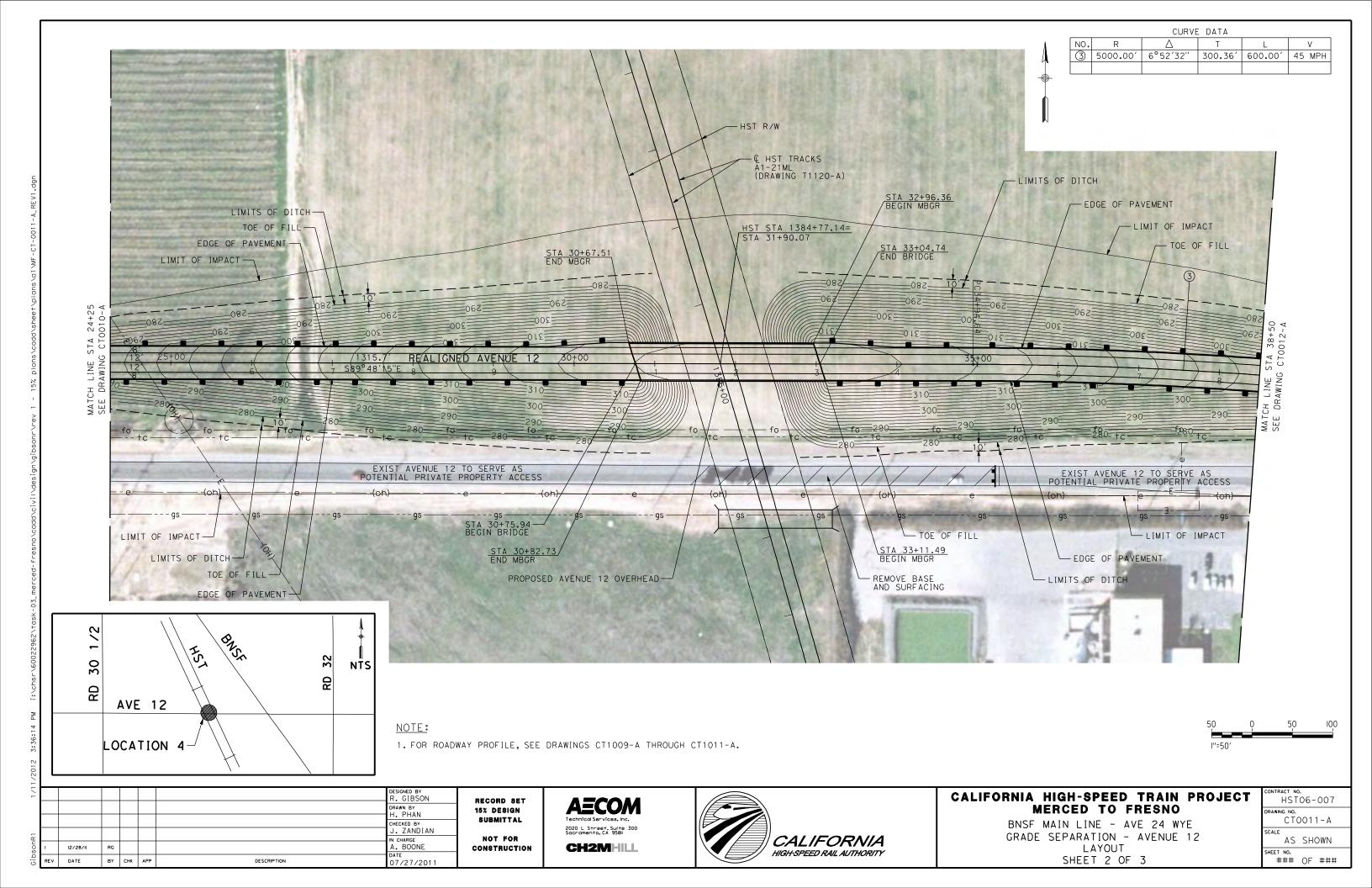


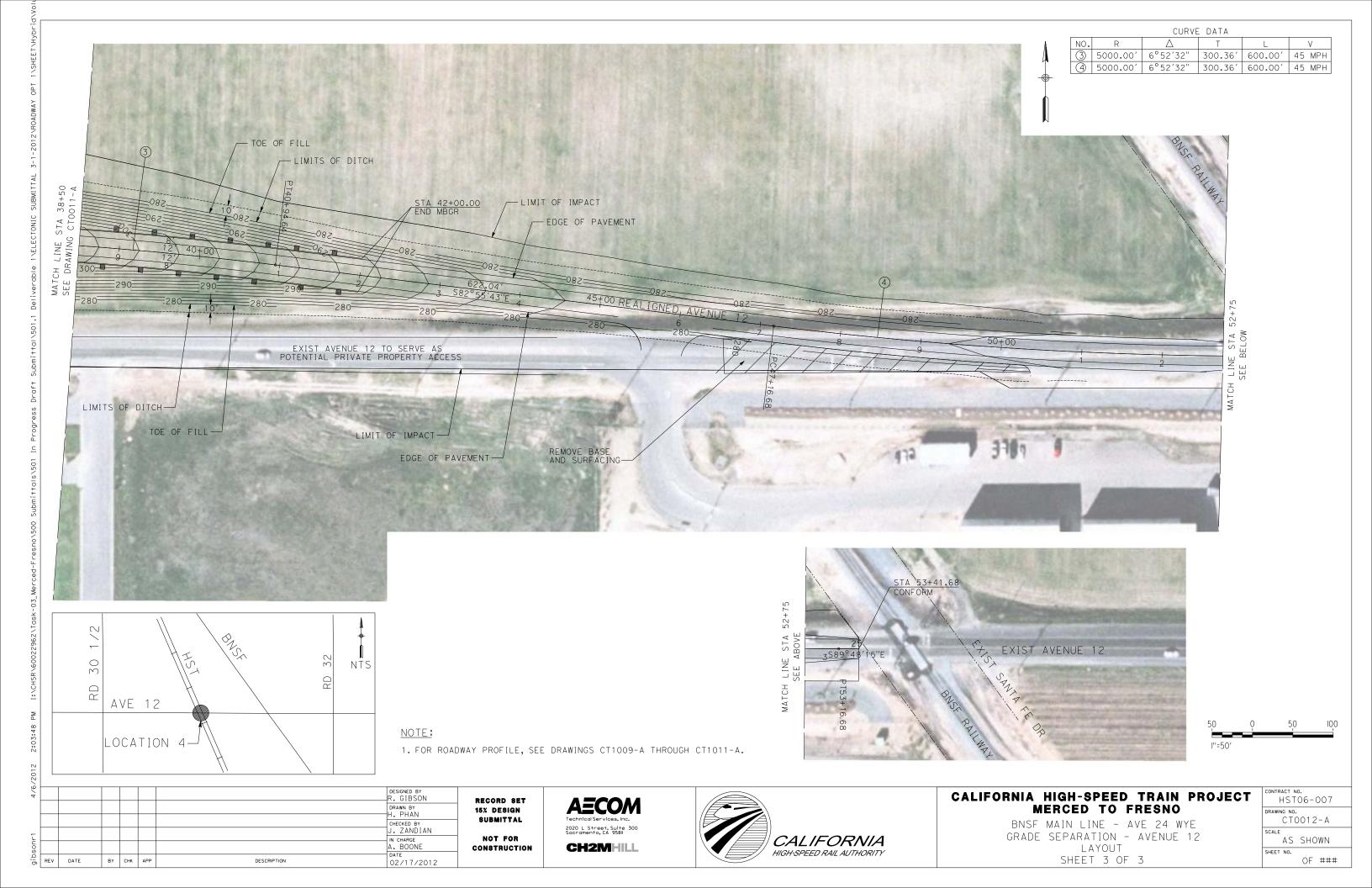
CURVE DATA

8°44′53" | 229.47′ | 458.05′ | 45 MPH

4 3000.00'







LOCATION 5-

AVE 13

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN N CHARGE A. BOONE 12/28/11 DATE 07/27/2011 BY CHK APP DESCRIPTION

AVE 13

NTS

NOTE:

RD

SUBMITTAL NOT FOR CONSTRUCTION

RECORD SET

15% DESIGN

AECOM 2020 L Street, Suite 300 Sacramento, CA 958II CH2MHILL

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.







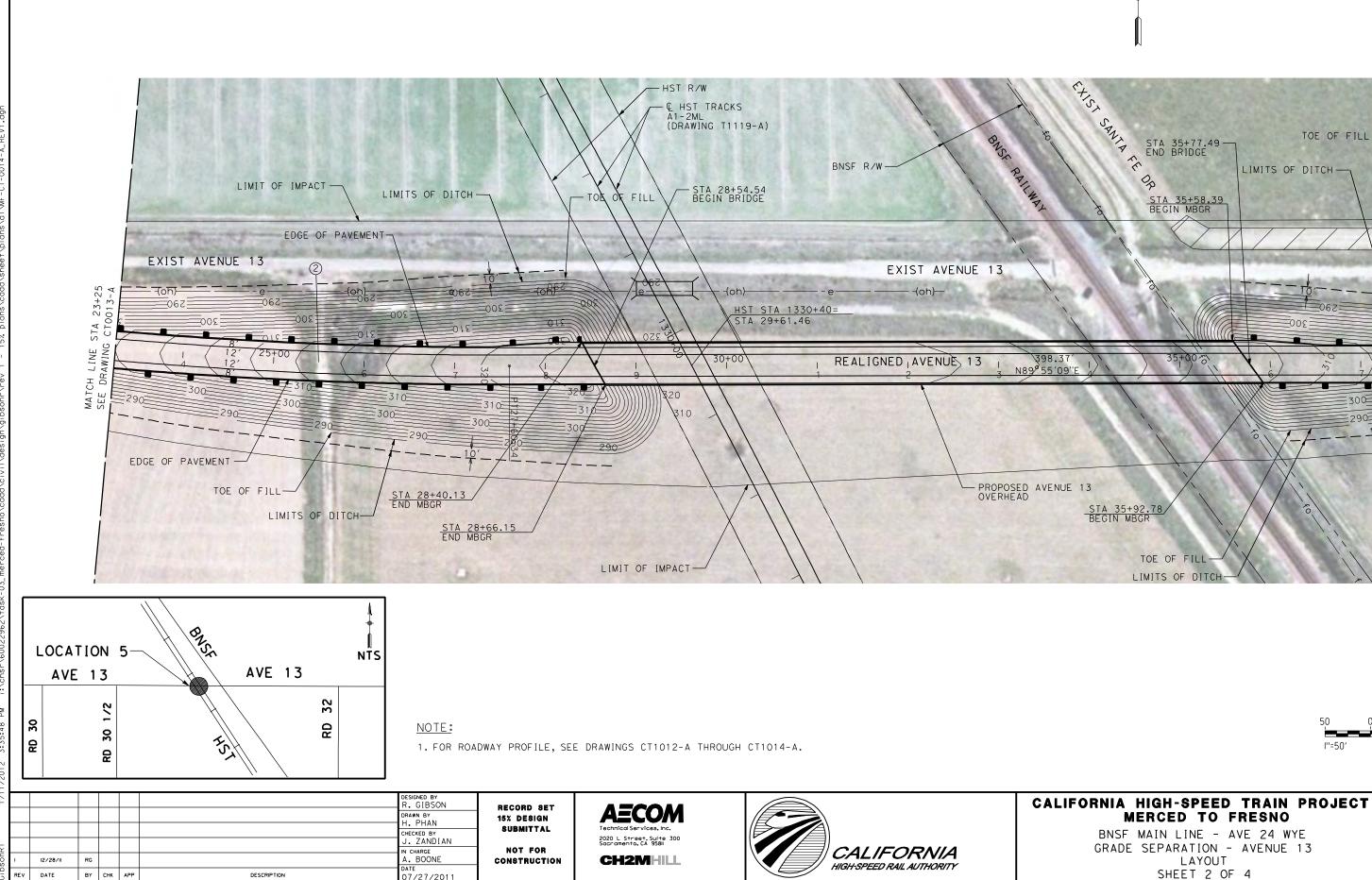
GRADE SEPARATION - AVENUE 13 LAYOUT SHEET 1 OF 4

-	CONTRACT NO.
	HST06-007
	DRAWING NO.
	CT0013-A
	SCALE
	NS SHOWN

CURVE DATA ② 5000.00′ 6°52′32" 300.36′ 600.00′ 45 MPH

SHEET NO. ### OF ###

PC10+62.86	LIMIT OF IMPACT —	EDGE OF PAVEMENT— LIMITS OF DITCH— TOE OF FILL—
EXIST AVENUE 13 10-280.97' 12 12 12 12 12 12 12 1		
(oh) -e -(oh) STA 10+00 CONFORM	LIMIT OF IMPACT R=2	ATTCH LINE STA 233, 255, 250, 200, 201, 201, 201, 201, 201, 201, 20
Tough I'm	LIMIT	R=25' STA 20+00.00 BEGIN MBGR EDGE OF PAVEMENT TOF IMPACT LIMIT OF IMPACT LIMIT OF IMPACT LIMIT OF IMPACT



CURVE DATA ② 5000.00' 6°52'32" 300.36' 600.00' 45 MPH

TOE OF FILL -

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 13

AWING NO. CT0014-A AS SHOWN HEET NO. ### OF ###

HST06-007

8

LOCATION 5-

AVE 13

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE 12/28/11 DATE 07/27/2011 BY CHK APP DESCRIPTION

AVE 13

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION CH2MHILL

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.



BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 13 LAYOUT SHEET 3 OF 4

1	CONTRACT NO. HST06-007
	DRAWING NO. CTOO15-A
	SCALE AS SHOWN
	SHEET NO. ### OF ###

MERCED TO FRESNO

'=50'	
JECT	CONTRACT NO. HST06-007
	DRAWING NO.

CURVE DATA

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 ③
 5000.00′
 6°49′51″
 298.41′
 596.11′
 45 MPH

 ④
 5000.00′
 6°52′32″
 300.36′
 600.00′
 45 MPH

CALIFORNIA	HIGH-SPEED	TRAIN	PROJECT	CONTRACT NO.
			I''=50'	

		/— REMOVE BASE AND SURFACING	LIMIT OF IMPACT		
	LIMITS OF DITCH	EDGE OF PAVEMENT—	TOE OF FILL	PC 48+17	MATCH SEE D
	///////////////////////////////////////	REMAIN OPEN DURING CONSTRUICTION)			RAWING S
SEE DRAWII	06Z 06Z 06Z	002 To	REALTICATED AVENUE 13 500.00' REALTICATED AVENUE 18 500.00' 8 N83°07'02"E	+	MATCH LINE STA 51+50 SEE DRAWING CT0016-A 50+00
E SIA 37+50 NG CT0014-A	12 40+00	290	H		
	290 290 TOE OF FILL	STA 42+00.00 — END MBGR EDGE OF PAVEMENT—	178. .88. .88. .22		
	LIMITS OF DITCH LIMIT OF IMPACT				

RECORD SET

NÎS

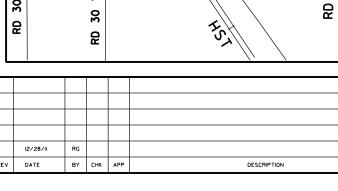
NOTE:

8

2020 L Street, Suite 300 Sacramento, CA 95811

LOCATION 5-

AVE 13



RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

NÎS

DESIGNED BY R. GIBSON

CHECKED BY
J. ZANDIAN

N CHARGE A. BOONE

DRAWN BY H. PHAN

AVE 13



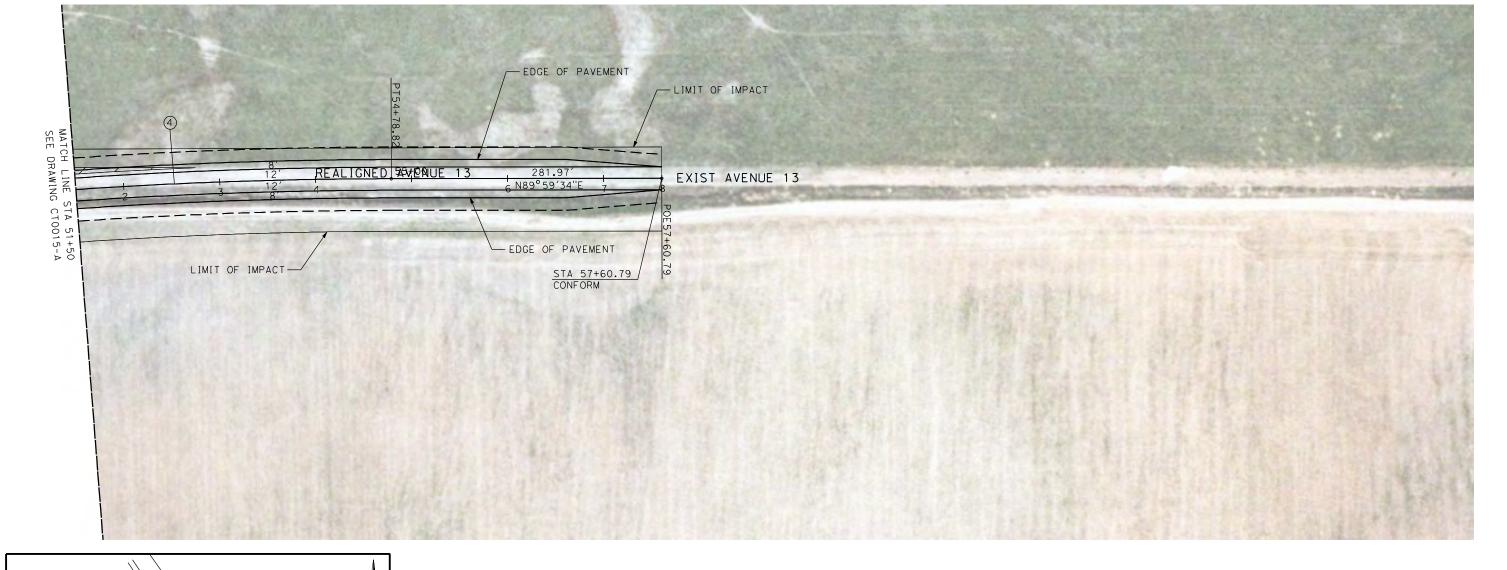
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1012-A THROUGH CT1014-A.



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

- AVE 24 WYE N - AVENUE 13 TUC 4 OF 4

Γ	CONTRACT NO. HST06-007
	DRAWING NO.
	CT0016-A
	SCALE
	AS SHOWN
	SHEET NO.
	### OF ###



CURVE DATA
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 ④
 5000.00′
 6°52′32″
 300.36′
 600.00′
 45 MPH

	MERCED IC
	BNSF MAIN LINE -
CALIFORNIA	GRADE SEPARATION
HIGH-SPEED RAIL AUTHORITY	LAYOU
INGITOR ELD TARIL AUTHORITI	SHEET 4

AVE 15

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE DATE 04/29/2011 BY CHK APP DESCRIPTION

- LOCATION 6

AVE 15

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

RECORD SET

NOTE:

AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1015-A THROUGH CT1017-A.



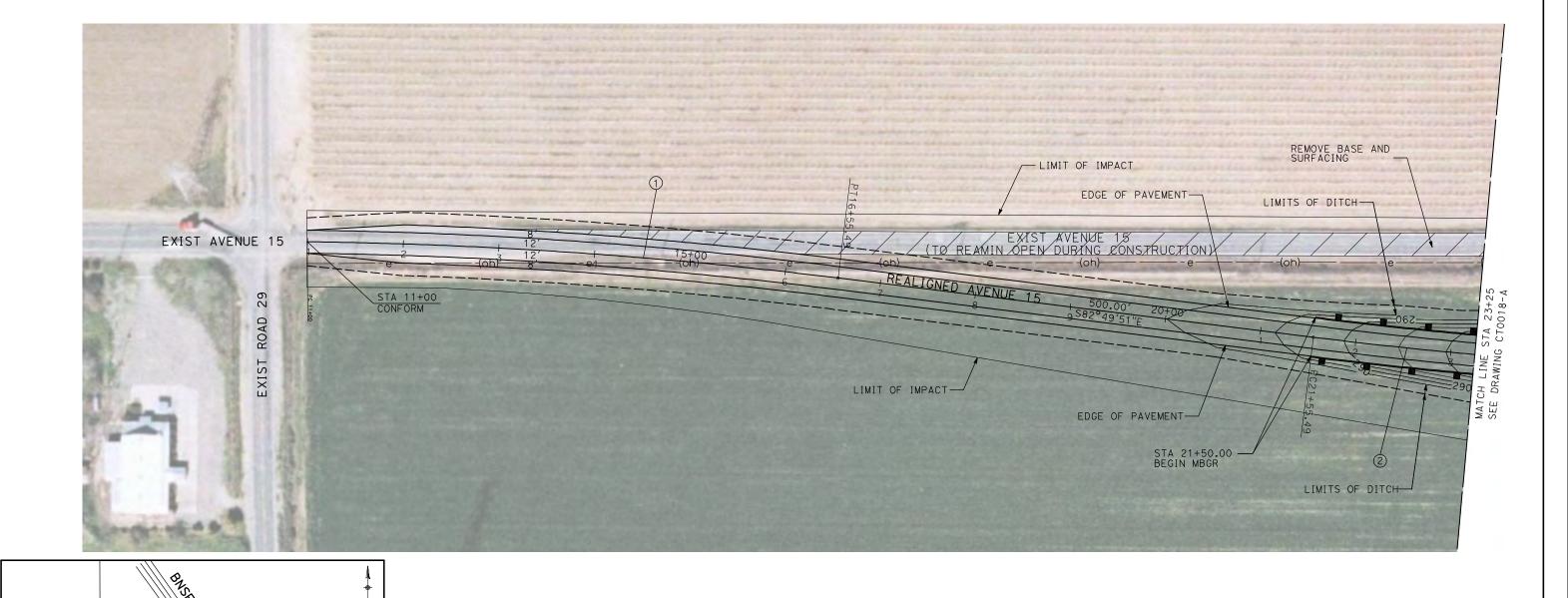


BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 15 LAYOUT SHEET 1 OF 3

Г	CONTRACT NO. HST06-007				
	DRAWING NO. CTOO17-A				
	SCALE AS SHOWN				

CURVE DATA ② 5000.00′ 6°52′32" 300.36′ 600.00′ 45 MPH

SHEET NO. ### OF ###



BY CHK APP

DESIGNED BY R. GIBSON RECORD SET DRAWN BY H. PHAN 15% DESIGN SUBMITTAL CHECKED BY
J. ZANDIAN NOT FOR IN CHARGE A. BOONE CONSTRUCTION 04/29/2011

DESCRIPTION

AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

LAYOUT SHEET 2 OF 3

HST06-007 RAWING NO. OF ###

CURVE DATA

3 5000.00' 6°52'32" 300.36' 600.00' 45 MPH

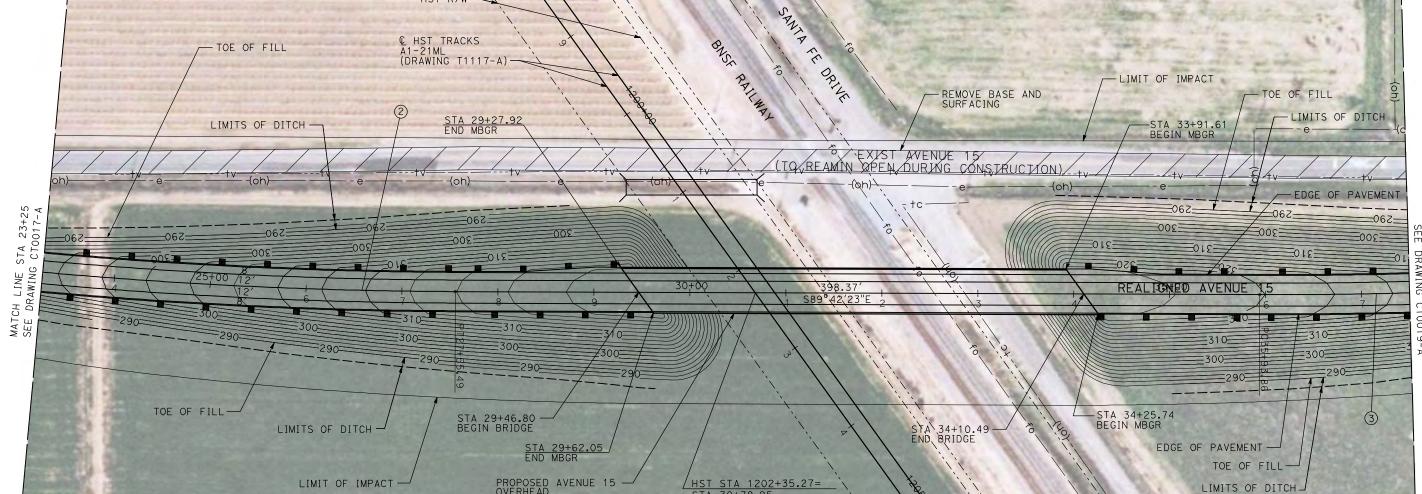
300.36′ 600.00′ 45 MPH

② 5000.00′ 6°52′32"

CT0018-A AS SHOWN

GRADE SEPARATION - AVENUE 15

	TOE OF FILL LIMITS OF	DITCH —	STA 29+46.80 BEGIN BRIDGE STA 29+6: END MBGR PROPOSED AVEN OVERHEAD		1202+35.27= 78.95	STA 34+10.49 - 3	STA 34+25.74 BEGIN MBGR EDGE
AVE 15	LOCATION 6 AVE 15	NOTE:	DWAY PROFILE, SEE DRAWII	NGS CT1015-A THROUGH CT10	017-A.		



DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE BY CHK APP DESCRIPTION 04/29/2011

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

RECORD SET



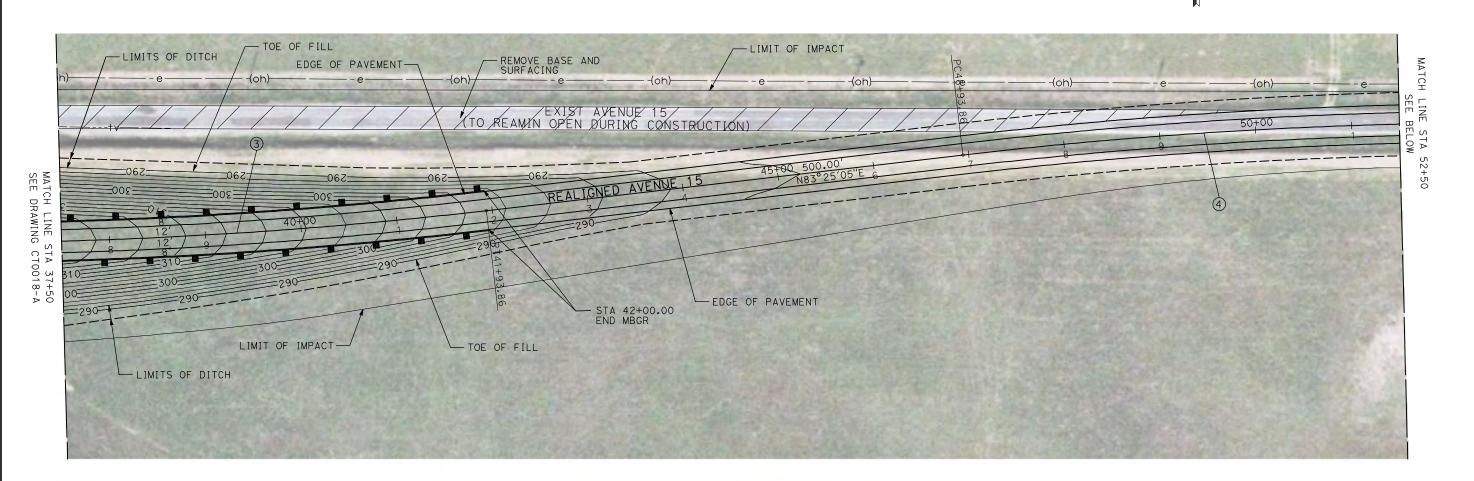


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 15 LAYOUT SHEET 3 OF 3

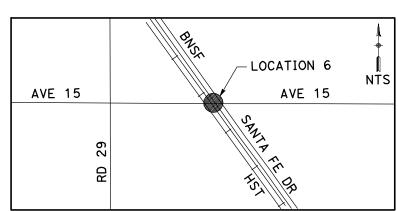
T	CONTRACT NO. HST06-007
	DRAWING NO. CTOO19-A
	scale AS SHOWN
	SHEET NO.

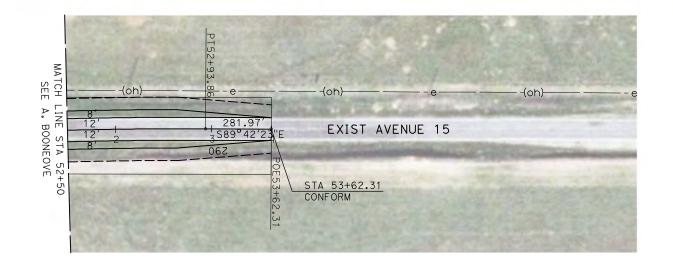
OF

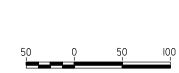


NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1015-A THROUGH CT1017-A.







CURVE DATA

3 5000.00' 6°52'32" 300.36' 600.00' 45 MPH (4) 5000.00' 6°52'32" 300.36' 600.00' 45 MPH

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE BY CHK APP DESCRIPTION 04/29/2011

AVE 15 1/2

LOCATION 7

NTS

NOTE:

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

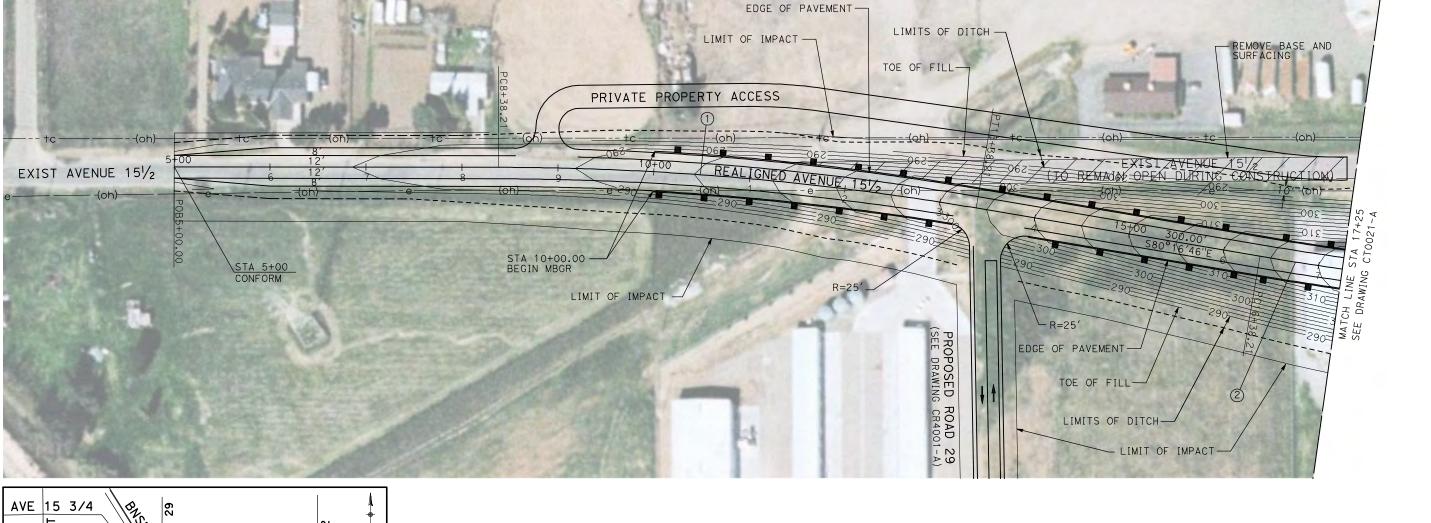
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1018-A THROUGH CT1020-A.

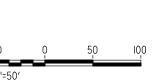


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 15 1/2 LAYOUT SHEET 1 OF 3

T	CONTRACT NO. HST06-007
	DRAWING NO. CTOO20-A
	SCALE AS SHOWN
	SHEET NO. ### OF ###





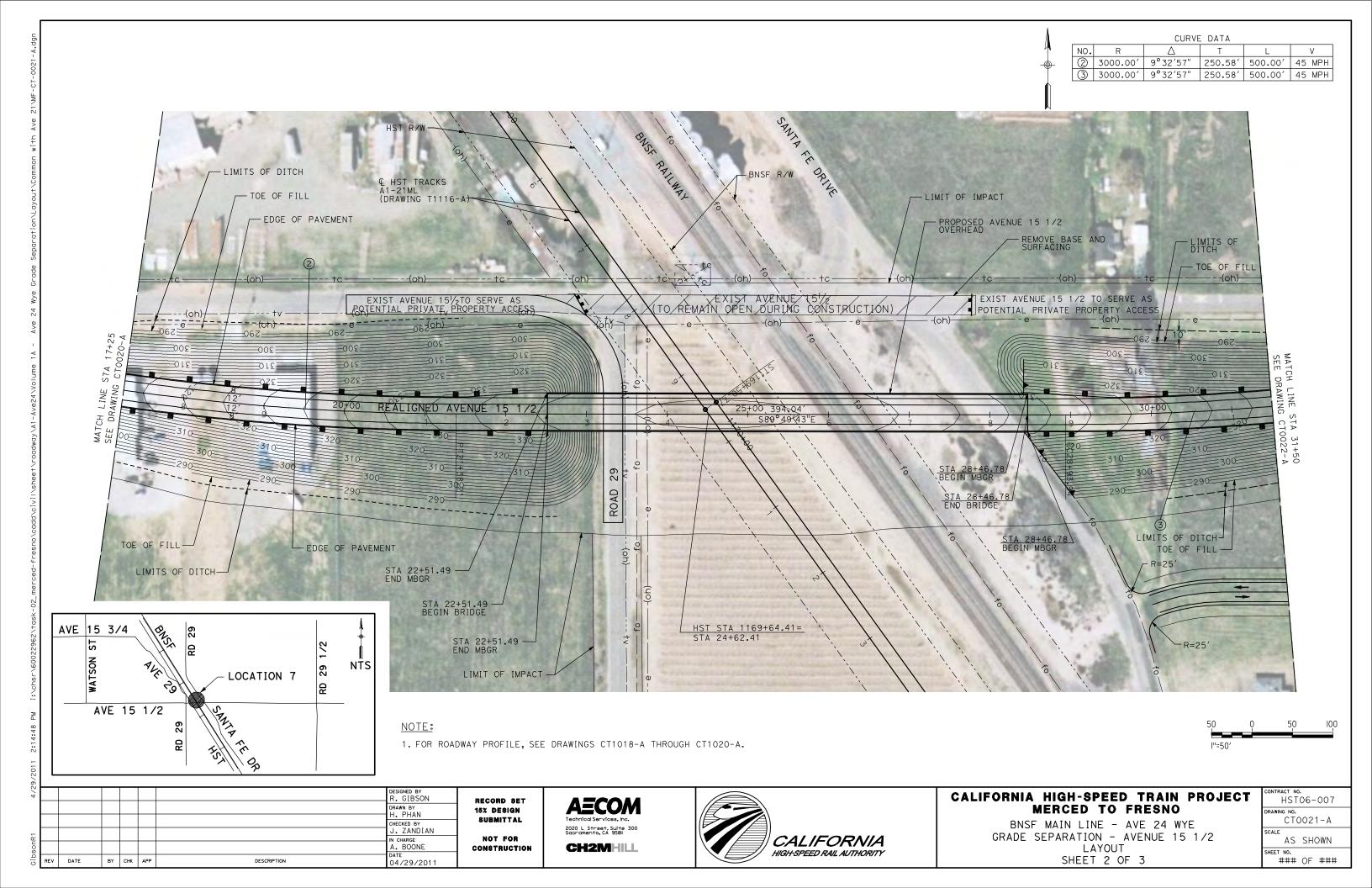
CURVE DATA

② 3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH

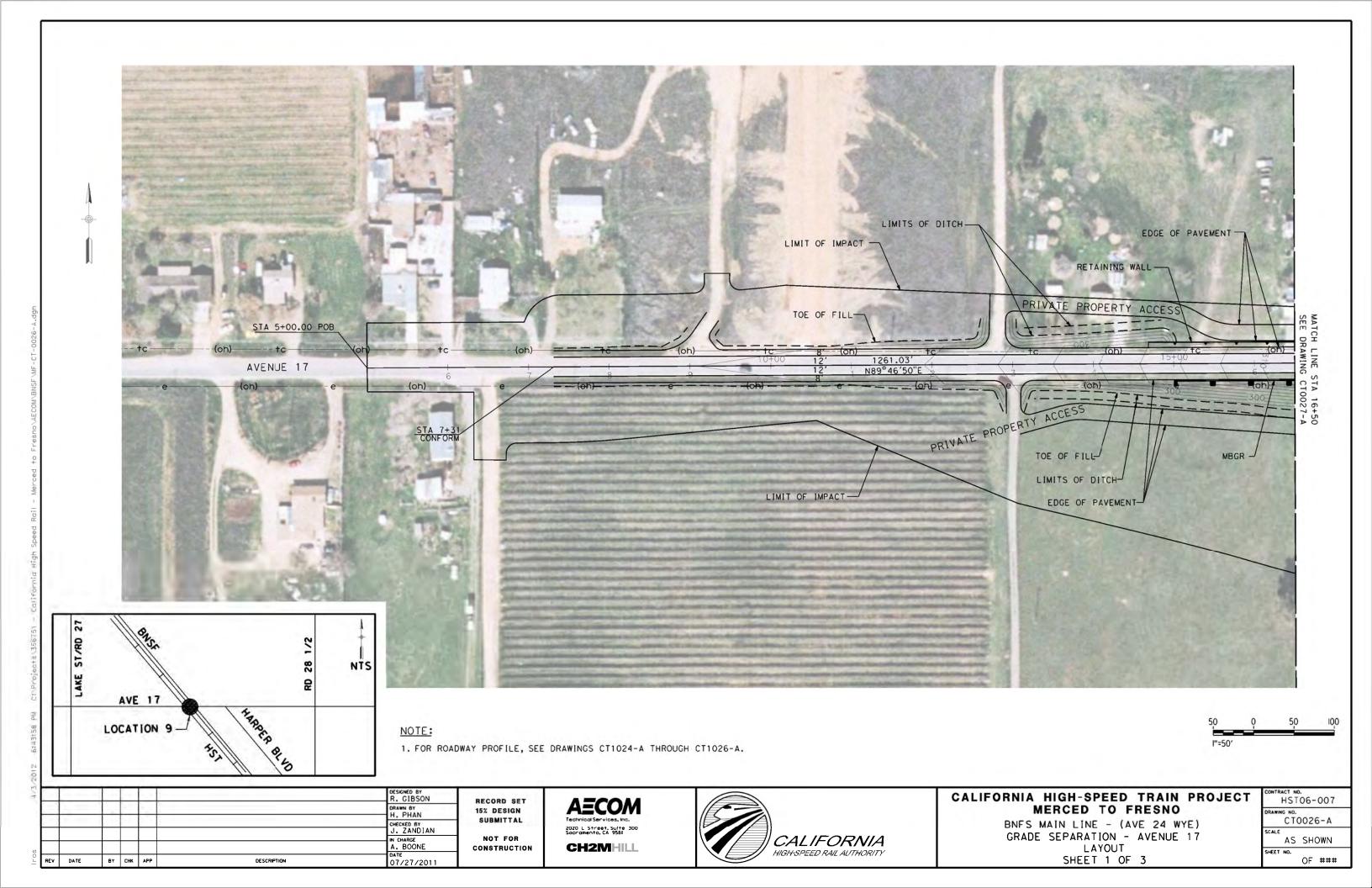
9°32′57" | 250.58′ | 500.00′ | 45 MPH

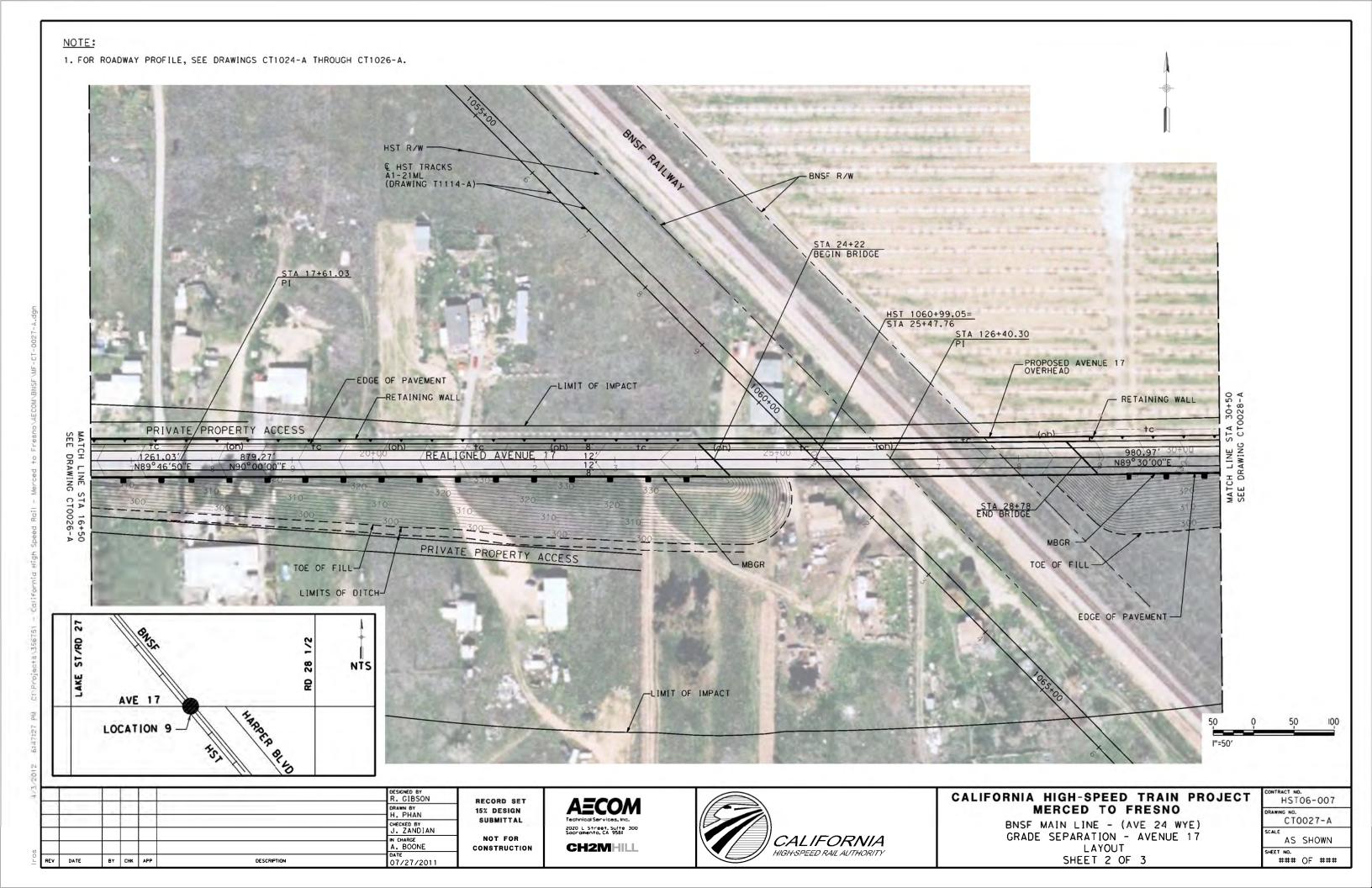
NO. R
1 3000.00'

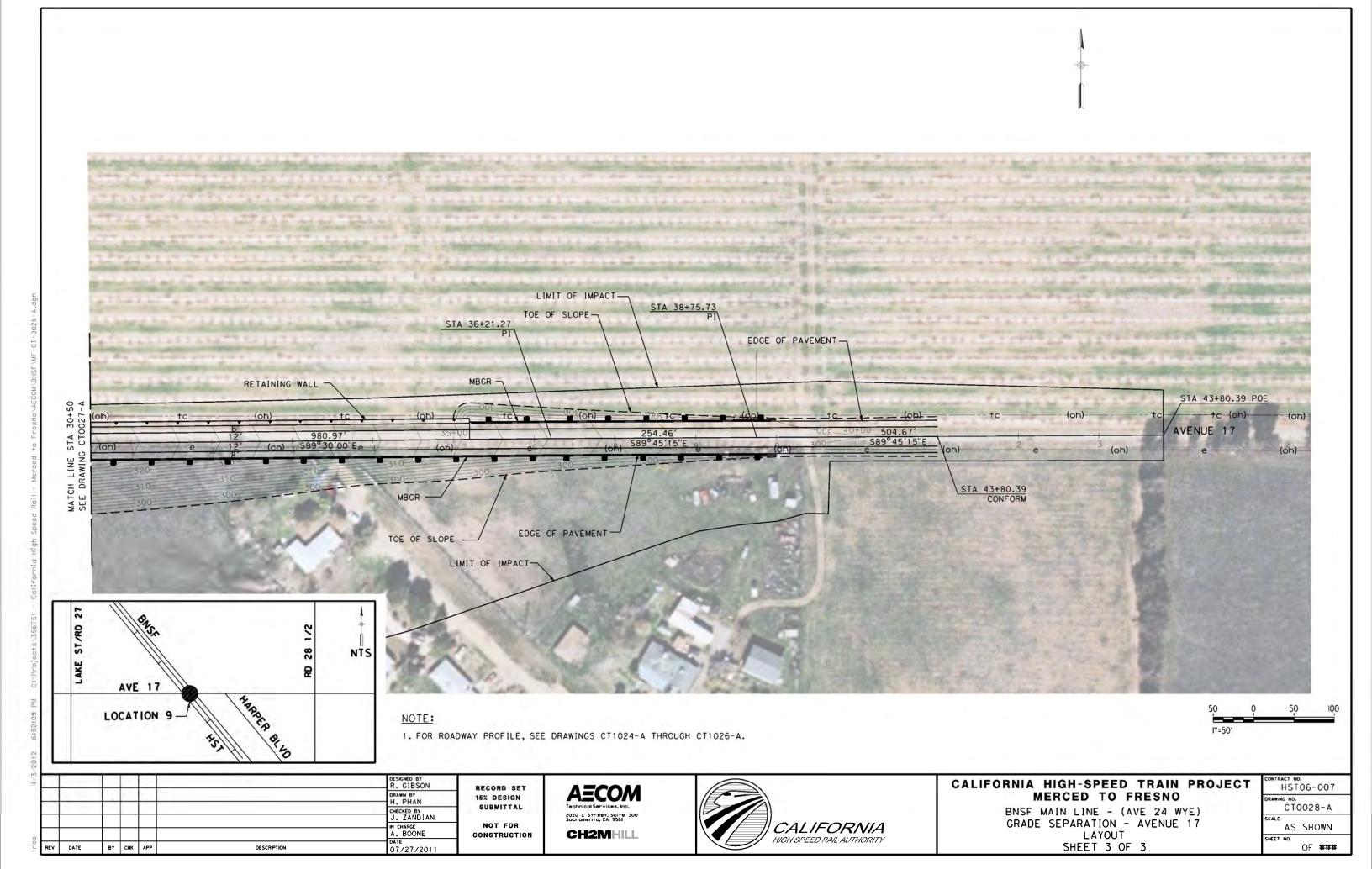
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

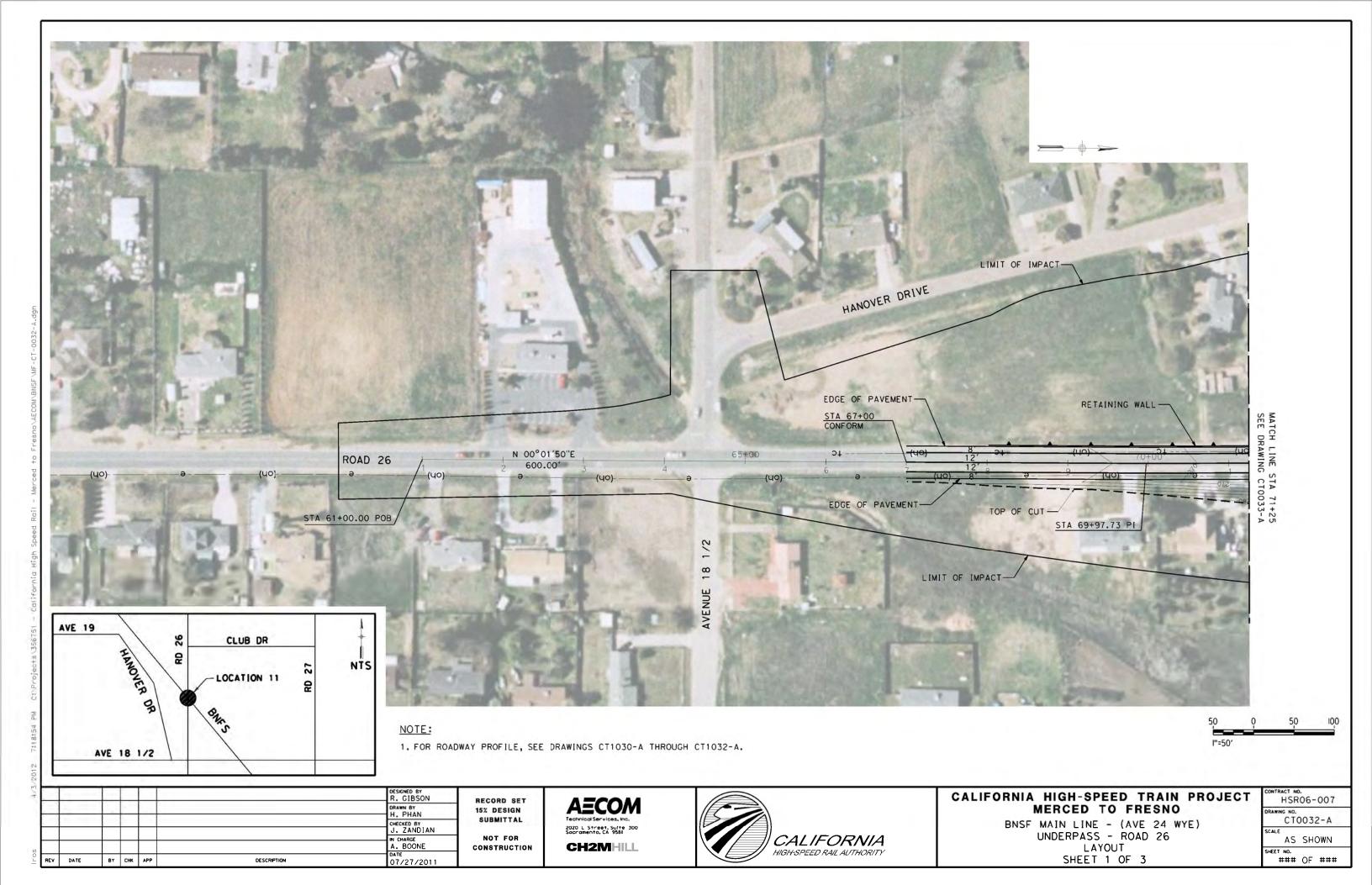


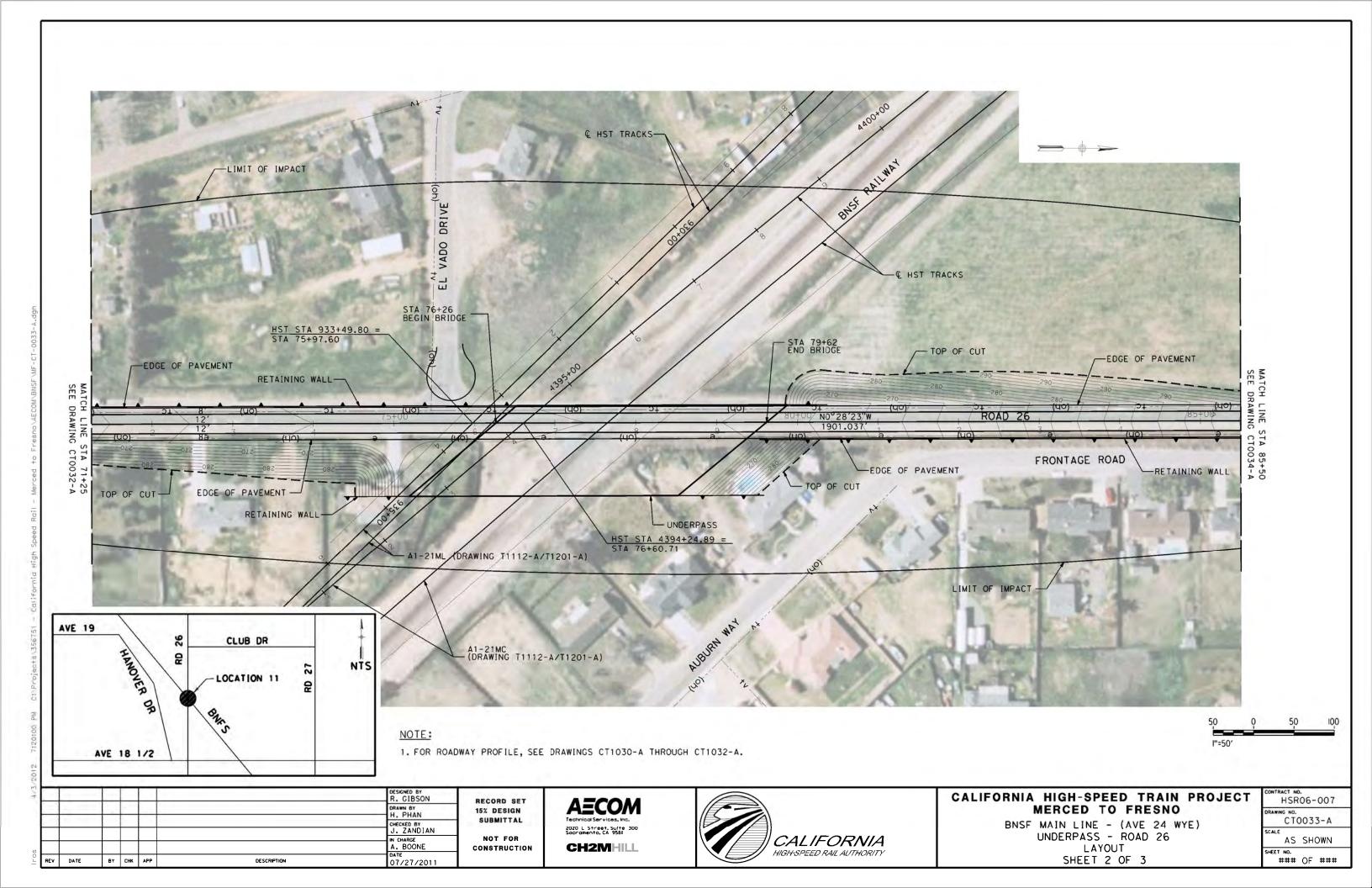
CURVE DATA 3 3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH 4 3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH - LIMIT OF IMPACT - TOE OF FILL - EDGE OF PAVEMENT - LIMITS OF DITCH LIMIT OF IMPACT PRIVATE PROPERTY ACCESS TOE OF FILL EXIST AVENUE 15 1/2 TO SERVE AS POTENTIAL PRIVATE PROPERTY ACCESS EXIST AVENUE 15 1/2 S89°49′43″E - EDGE OF PAVEMENT R=25' LIMIT OF IMPACT LIMITS OF DITCH-LIMIT OF IMPACT TOE OF FILL R=25'-AVE 15 3/4 NTS LOCATION 7 AVE 15 1/2 NOTE: 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1018-A THROUGH CT1020-A. DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HST06-007 RECORD SET DRAWN BY H. PHAN MERCED TO FRESNO 15% DESIGN SUBMITTAL CT0022-A CHECKED BY
J. ZANDIAN BNSF MAIN LINE - AVE 24 WYE 2020 L Street, Suite 300 Sacramento, CA 95811 GRADE SEPARATION - AVENUE 15 1/2 NOT FOR IN CHARGE A. BOONE CALIFORNIA AS SHOWN CH2MHILL LAYOUT CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 3 OF 3 ### OF ### BY CHK APP DESCRIPTION 04/29/2011

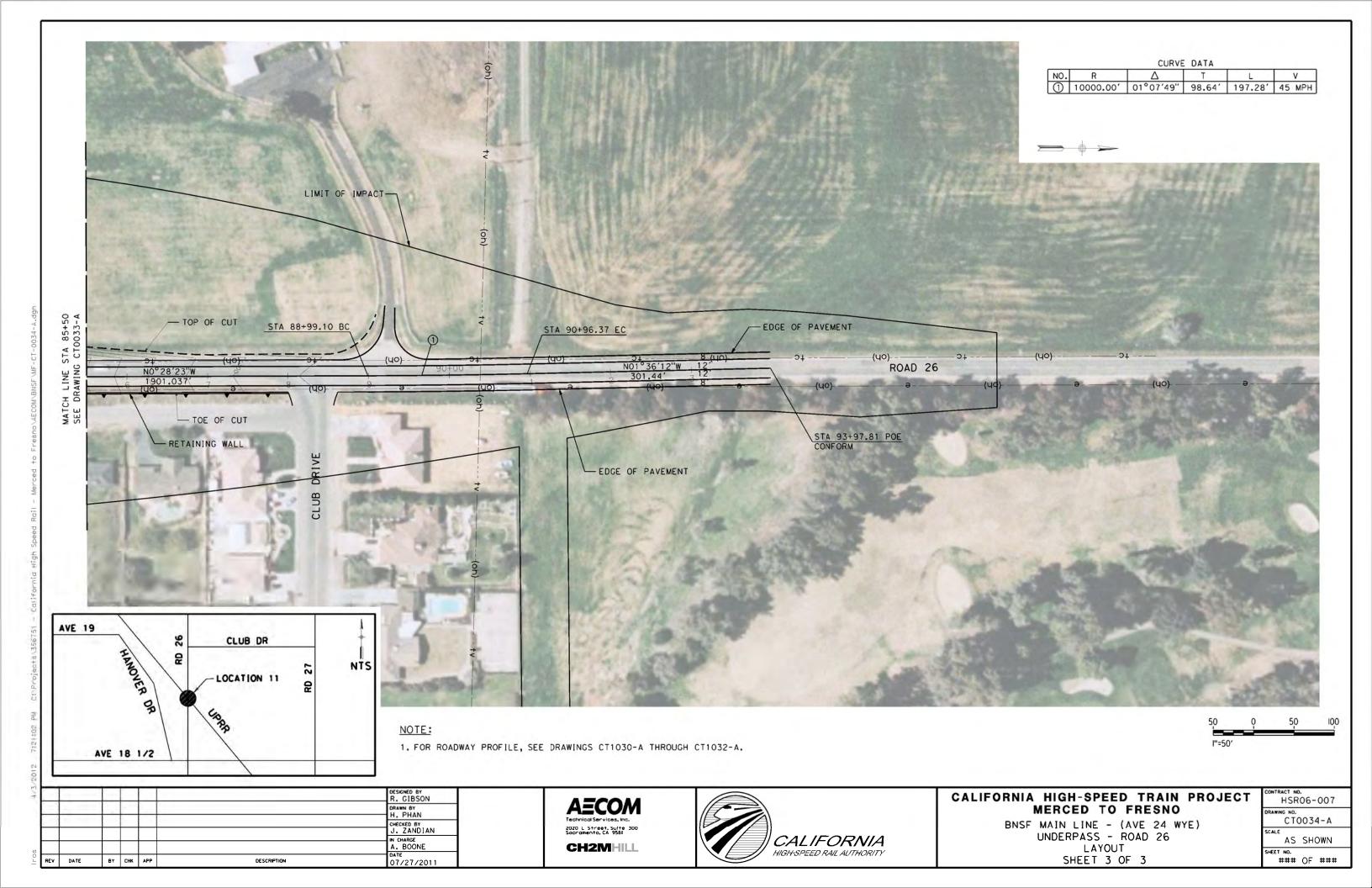


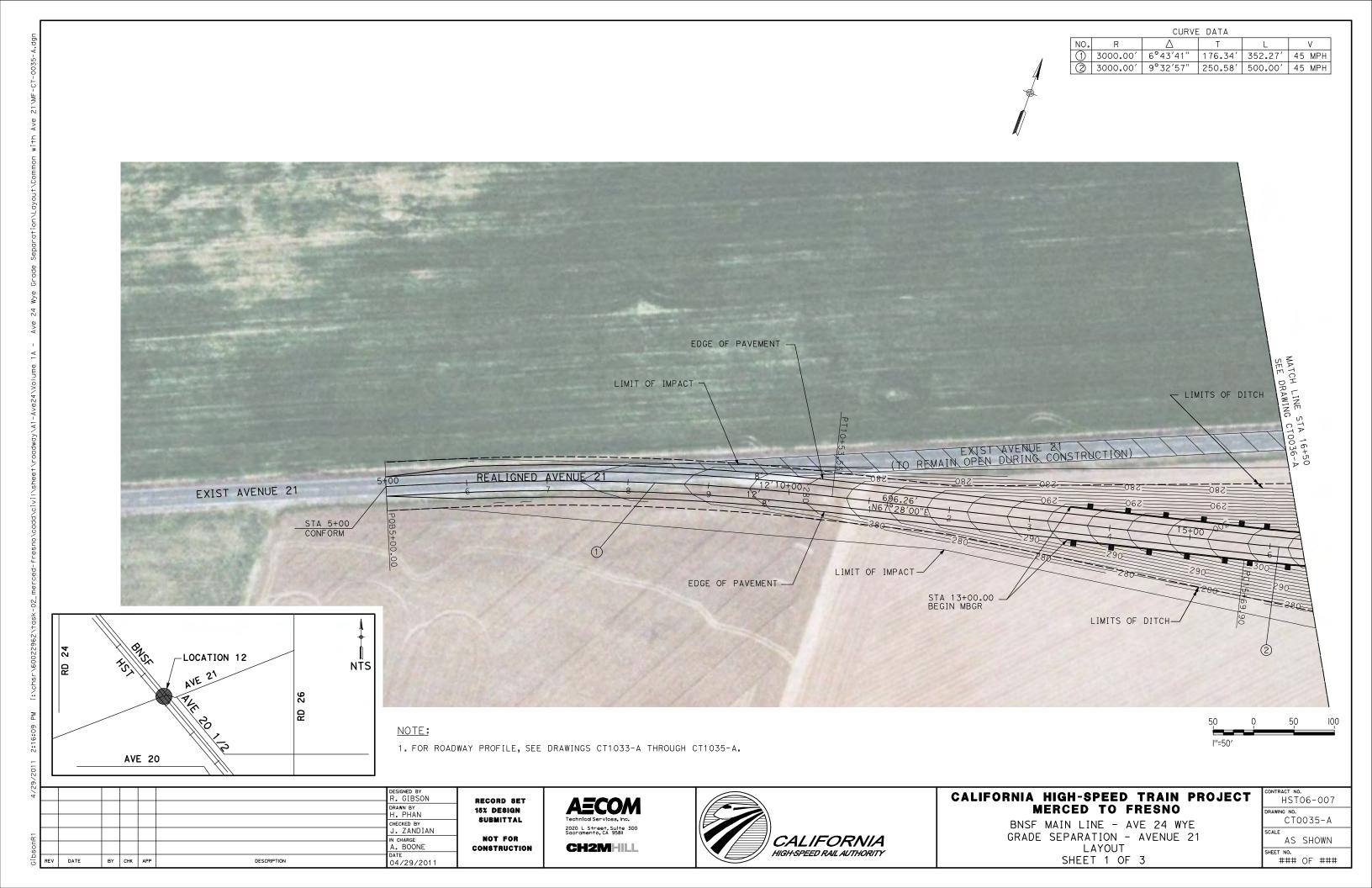


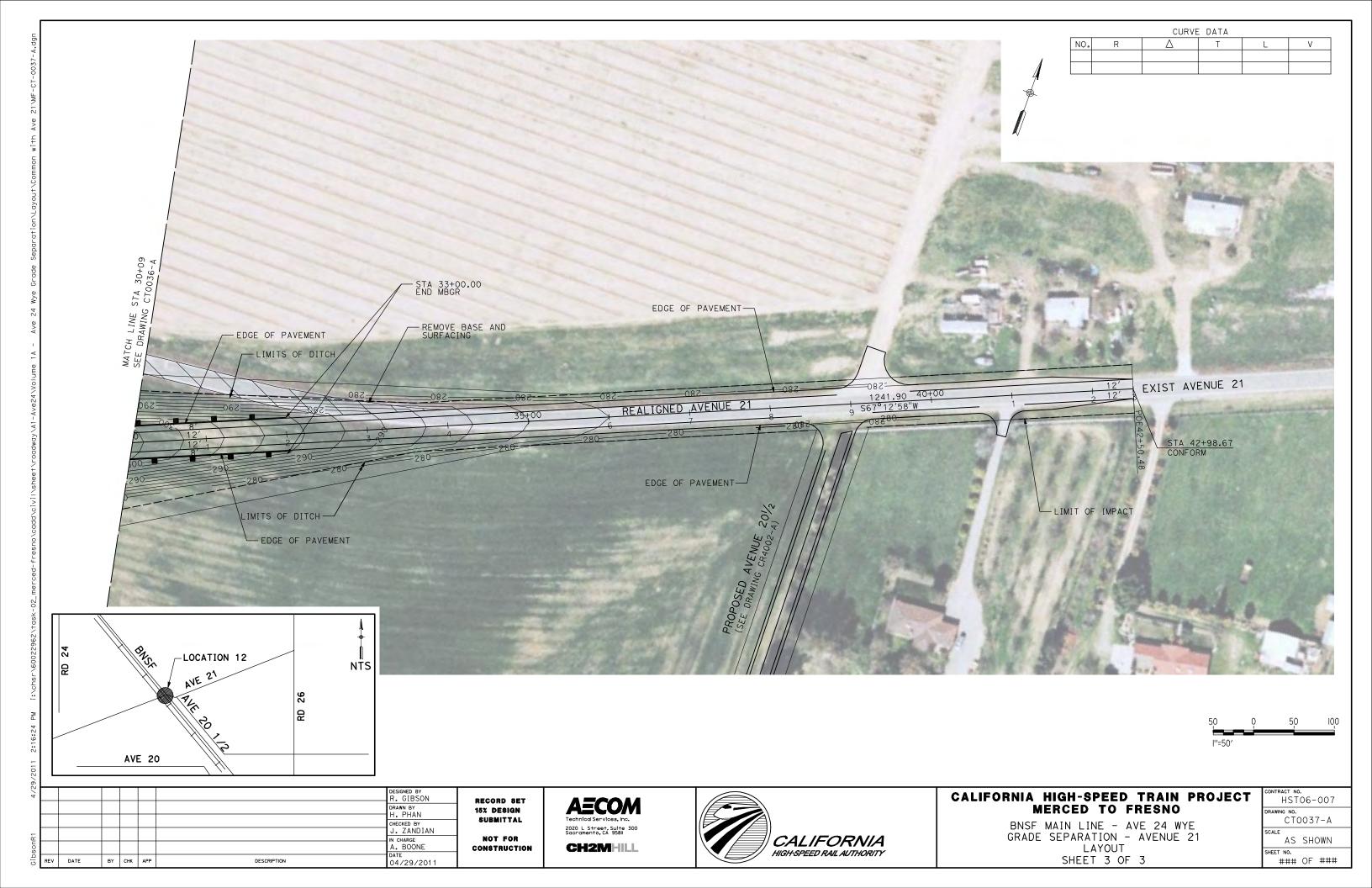




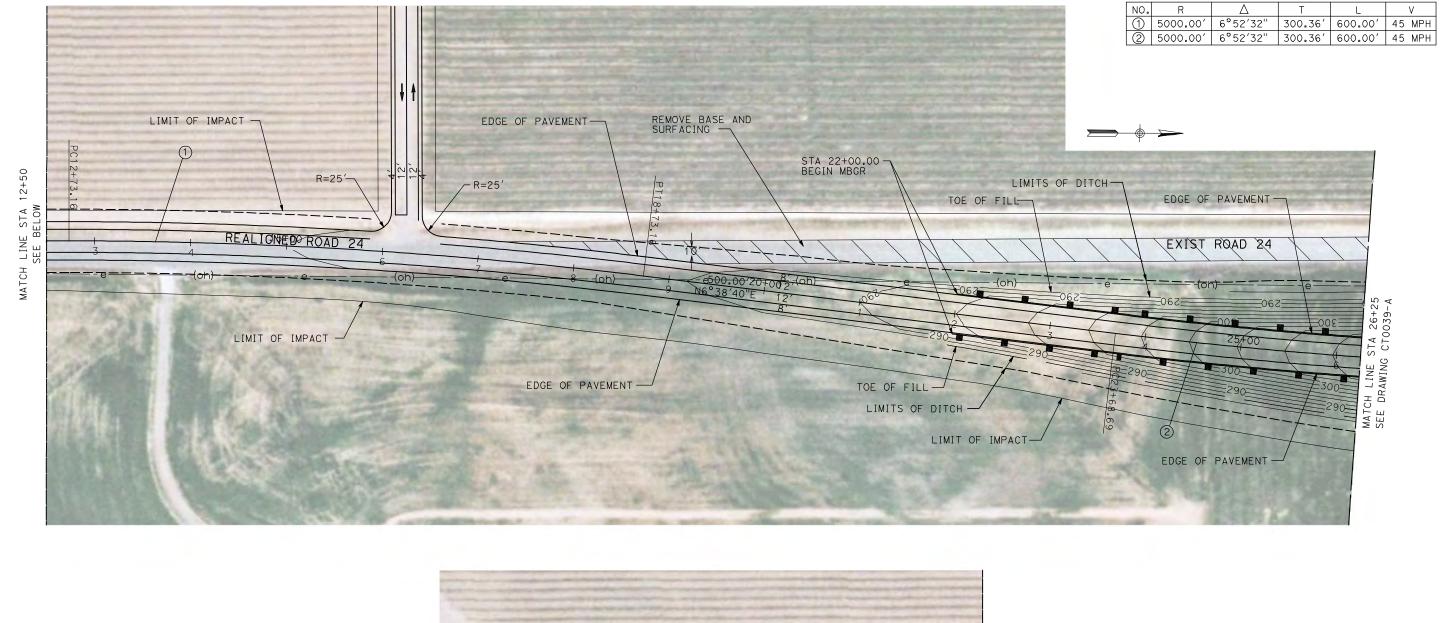




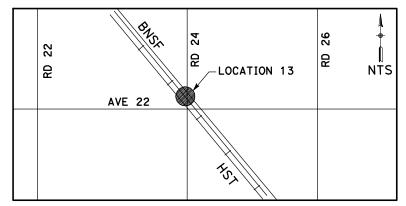






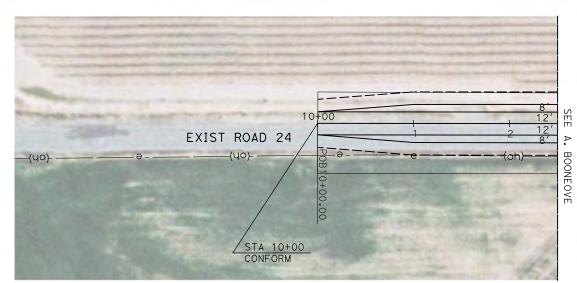


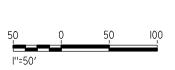




DESCRIPTION

BY CHK APP





CURVE DATA

DESIGNED BY R. GIBSON	
DRAWN BY H. PHAN	
CHECKED BY J. ZANDIAN	
IN CHARGE A. BOONE	
DATE 04/29/2011	



RECORD SET

15% DESIGN SUBMITTAL

NOT FOR

CONSTRUCTION

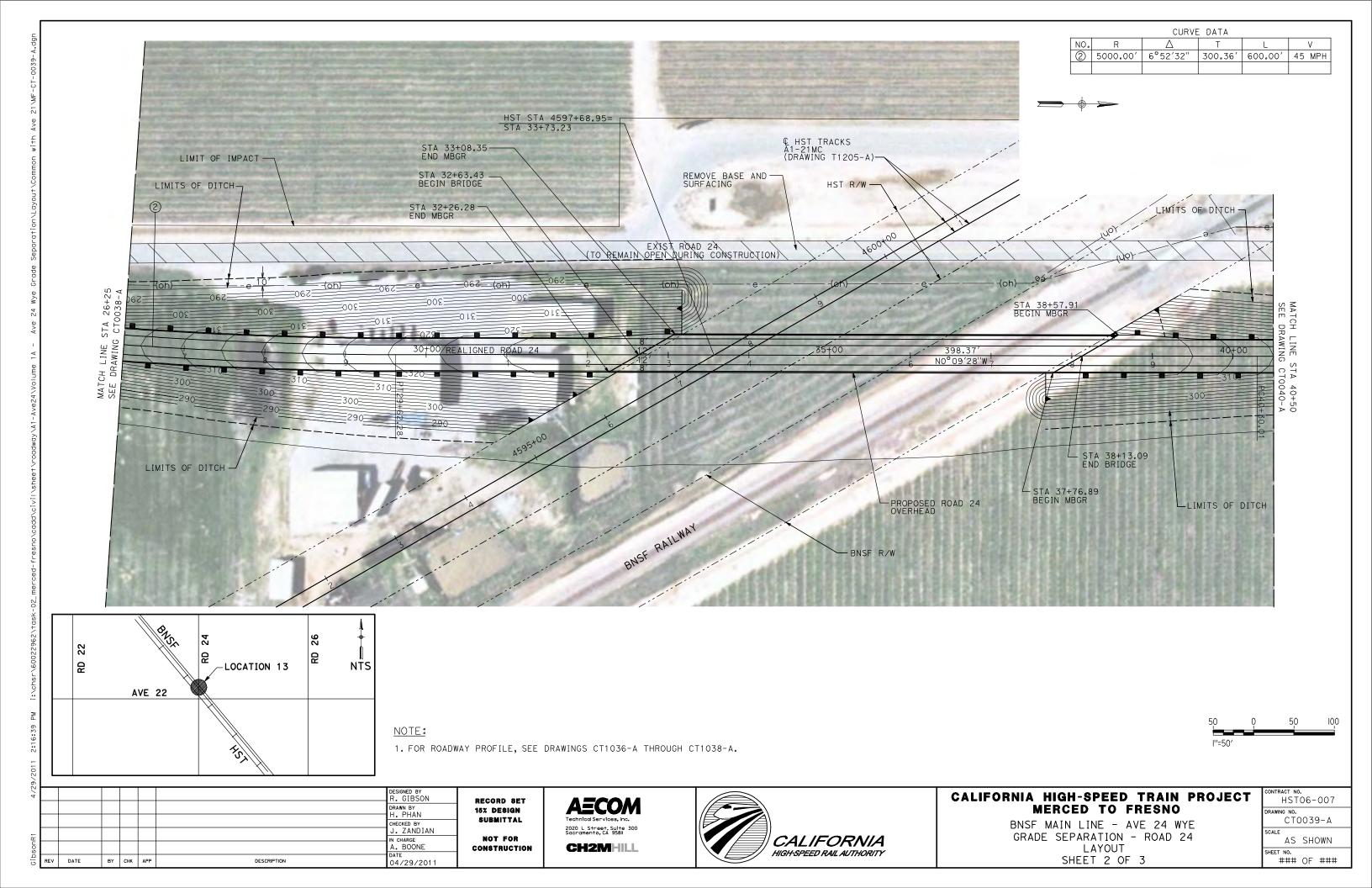


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 24 LAYOUT SHEET 1 OF 3

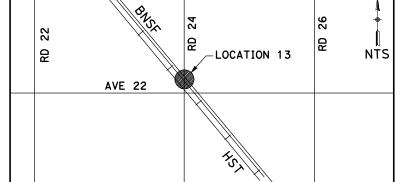
CONTRACT NO.
HST06-007
DRAWING NO.
CT0038-A
SCALE
VC CHOMM

AS SHOWN ### OF ###





281.97′ NO0°09′28''\



DESCRIPTION

BY CHK APP

DESIGNED BY R. GIBSON RECORD SET DRAWN BY H. PHAN 15% DESIGN SUBMITTAL CHECKED BY
J. ZANDIAN N CHARGE A. BOONE CONSTRUCTION DATE 04/29/2011

NOT FOR

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL



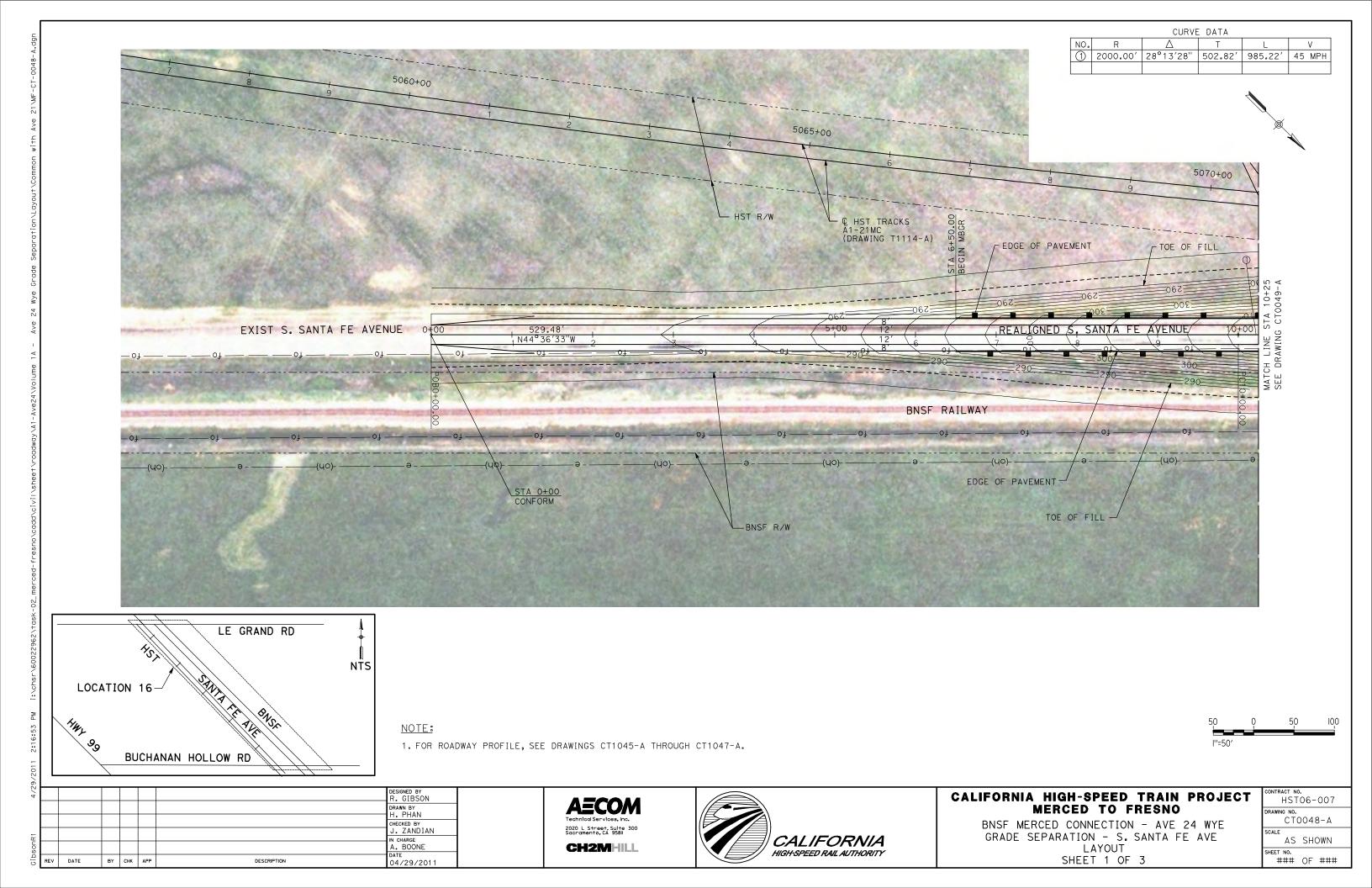
EXIST ROAD 24

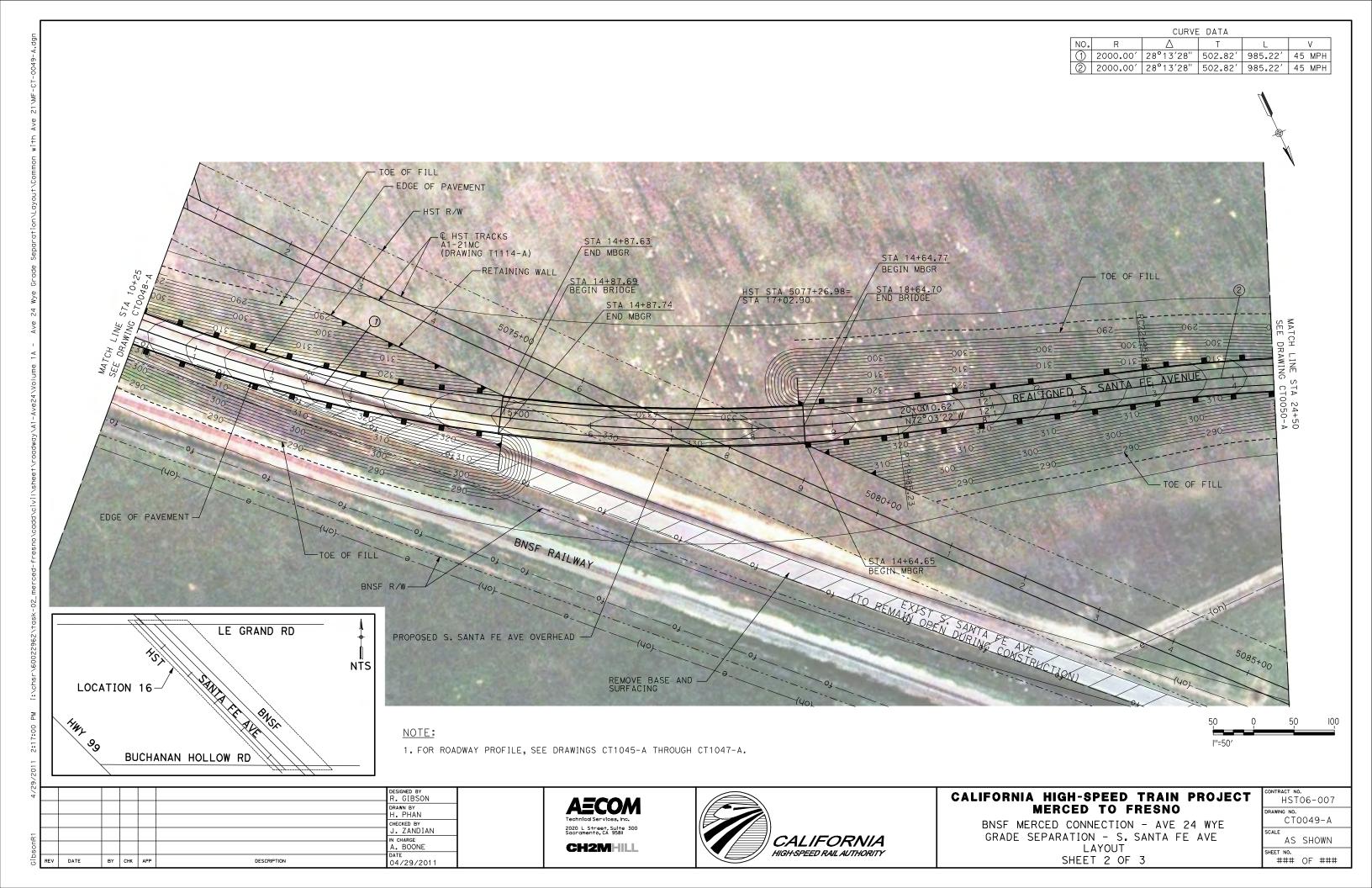
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

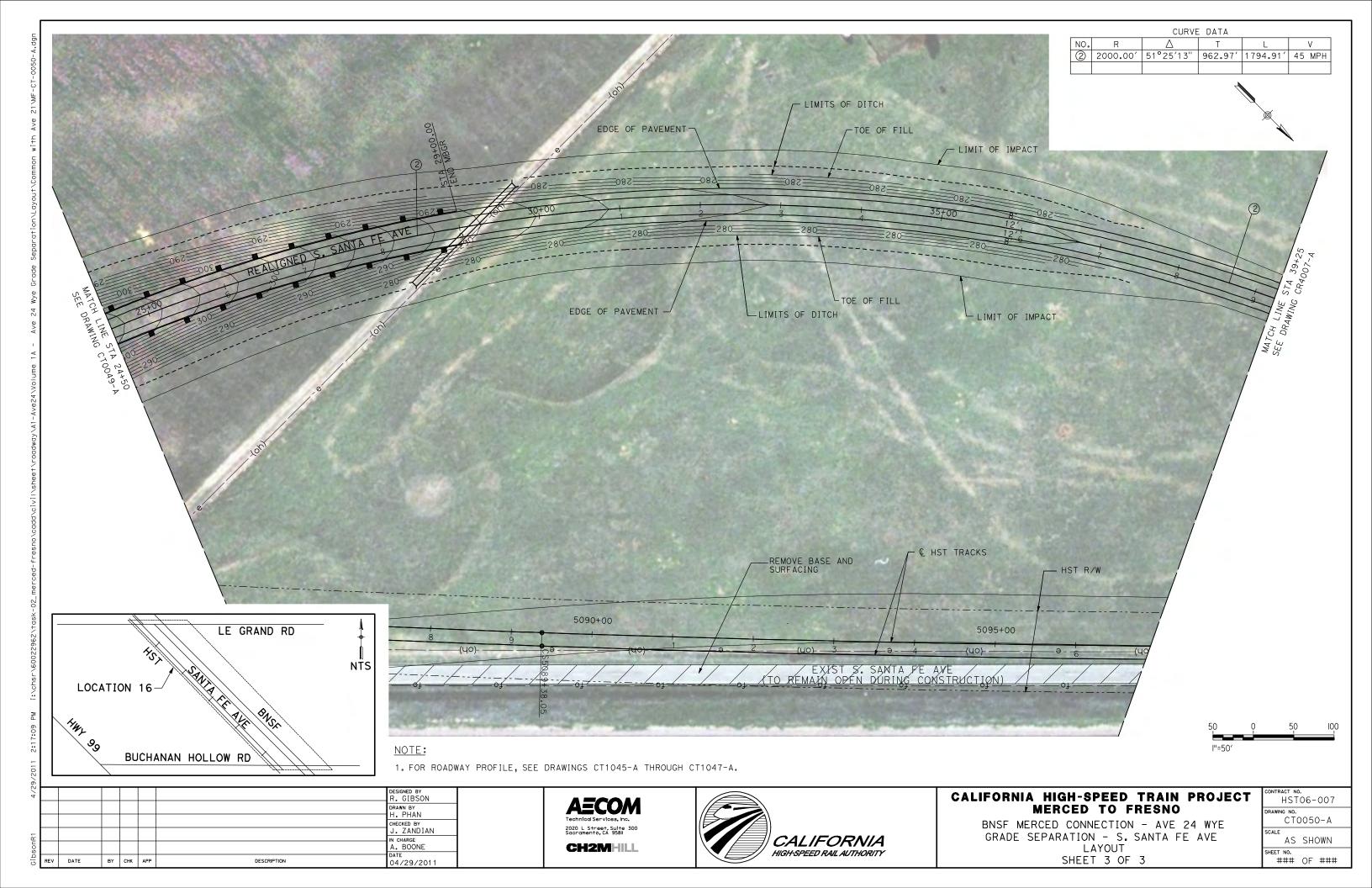
CURVE DATA

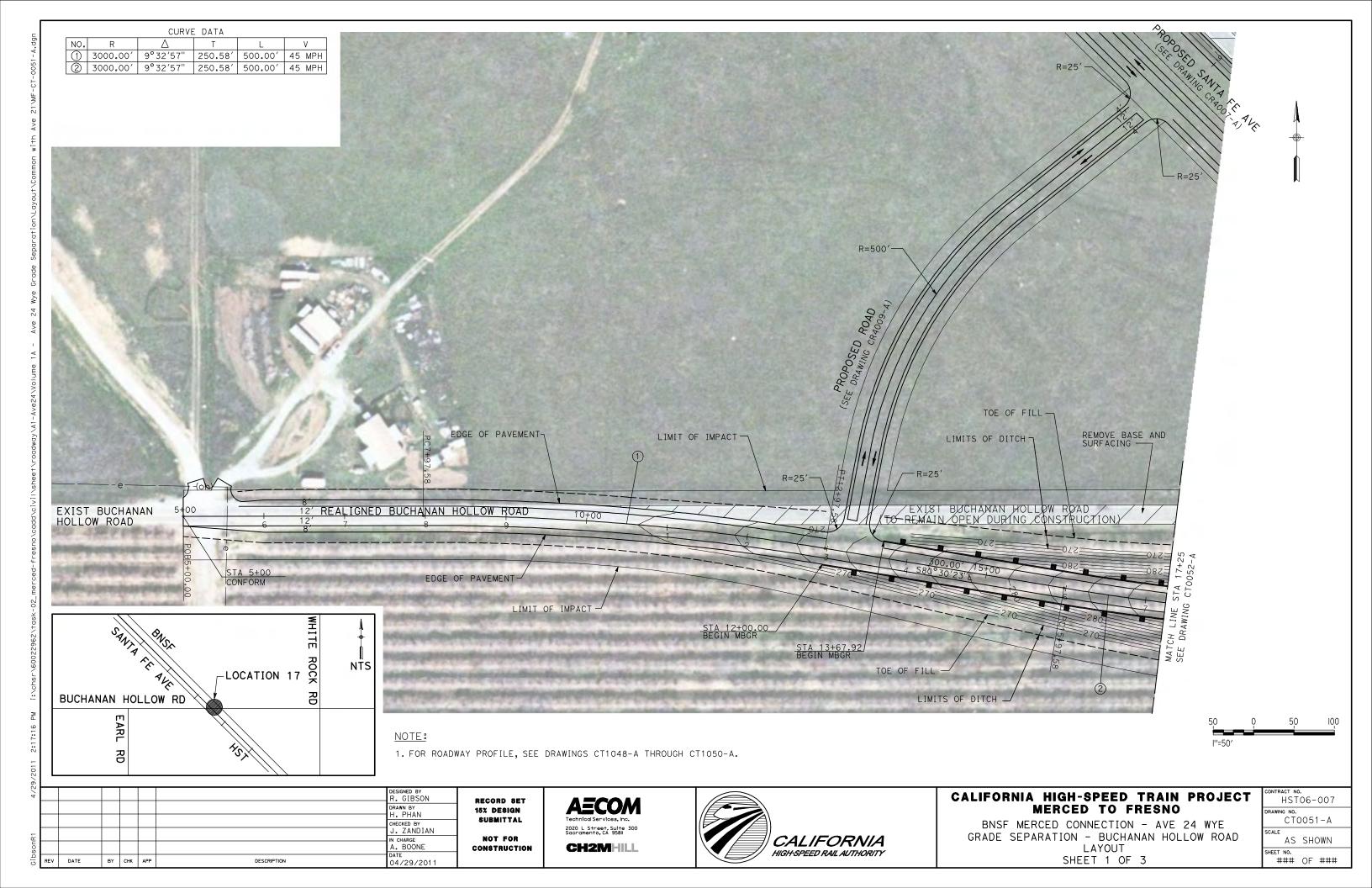
BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 24 LAYOUT SHEET 3 OF 3

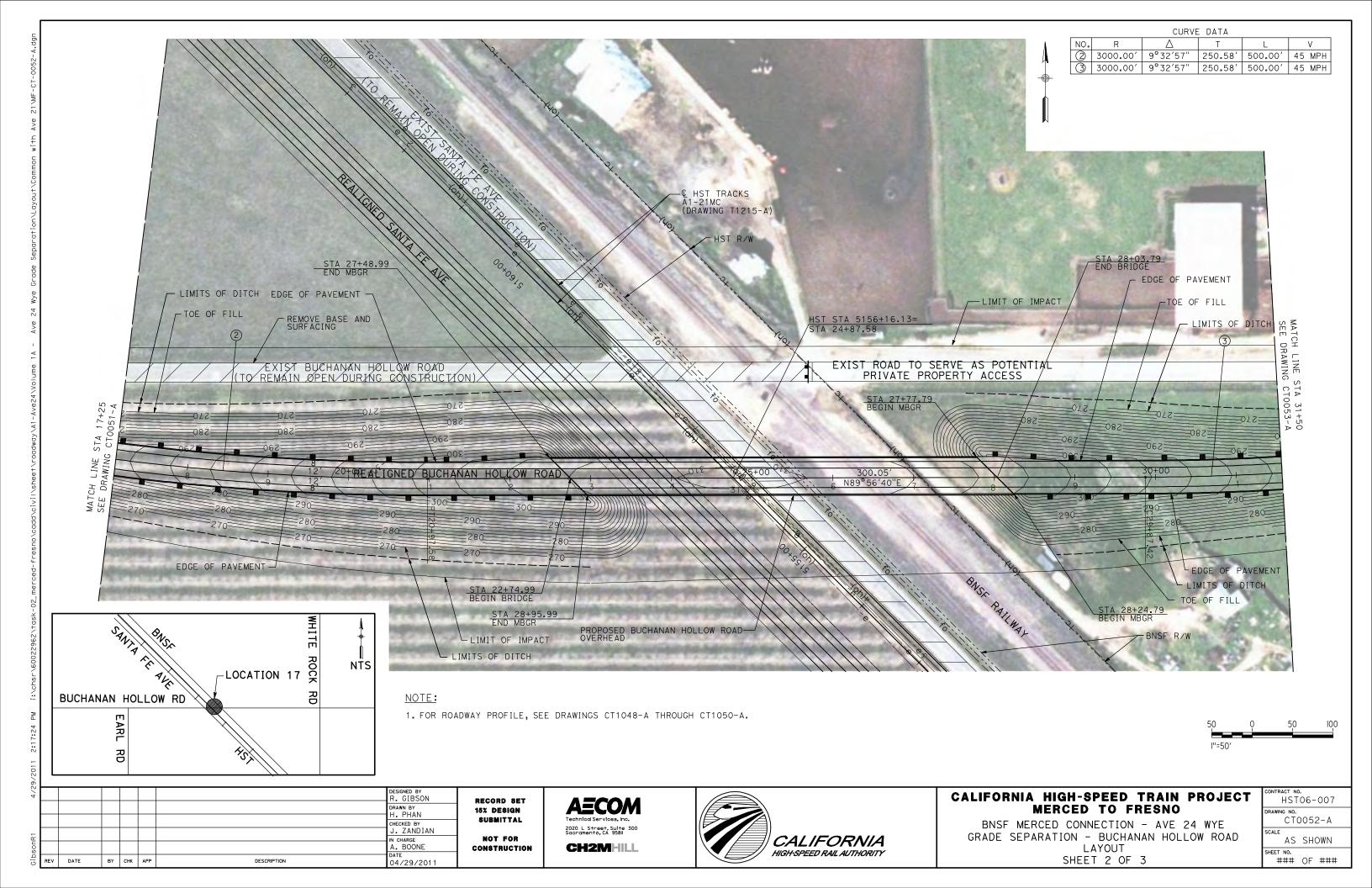
•	CONTRACT NO. HST06-007					
	DRAWING NO. CTOO40-A					
	SCALE AS SHOWN					
	SHEET NO. ### OF ###					











EARL RD

BUCHANAN HOLLOW RD

RECORD SET 15% DESIGN SUBMITTAL NOT FOR

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL**



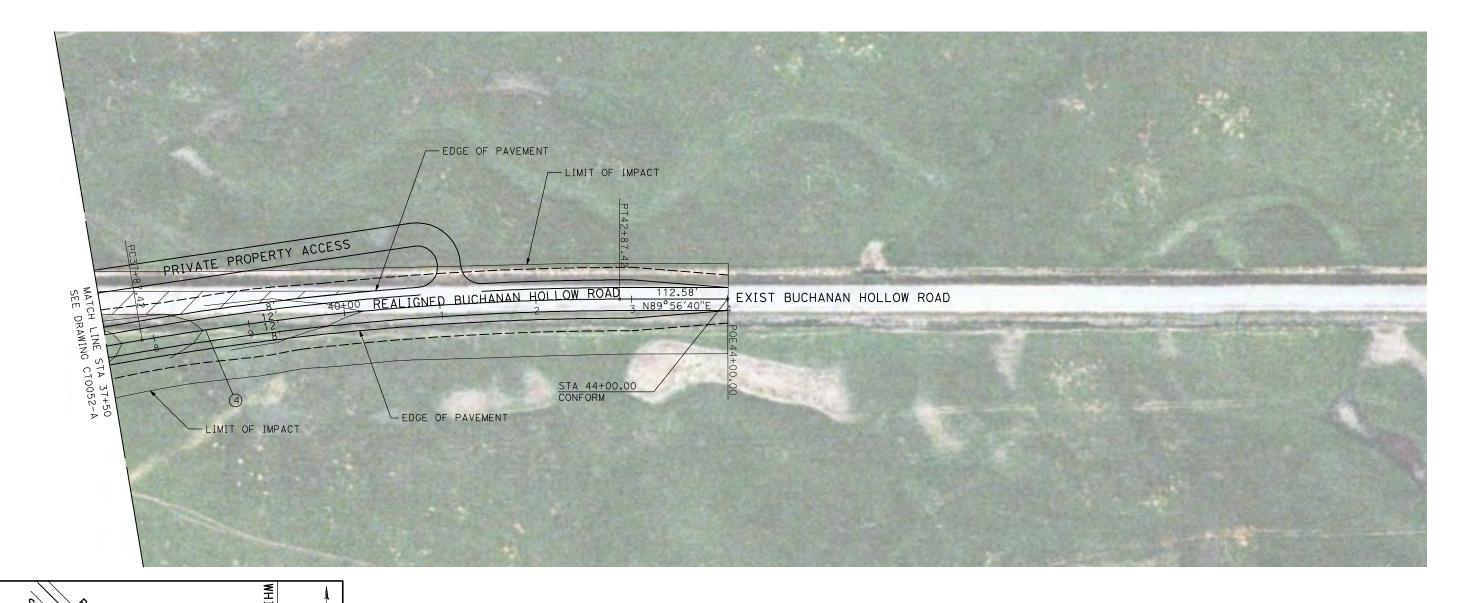
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

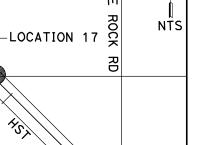
BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - BUCHANAN HOLLOW ROAD LAYOUT SHEET 3 OF 3

T	CONTRACT NO. HST06-007					
	DRAWING NO.					
	CT0053-A					
	SCALE					
	AS SHOWN					
	SHEET NO.					
	### OF ###					

CURVE DATA NO. R △ T L V

③ 3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1048-A THROUGH CT1050-A.

						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN IN CHARGE
						A. BOONE DATE
REV	DATE	BY	СНК	APP	DESCRIPTION	04/29/2011

CONSTRUCTION

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

BY CHK APP

DESCRIPTION

15% DESIGN SUBMITTAL CHECKED BY NOT FOR CONSTRUCTION

DRAWN BY H. PHAN

CHARGE BOONE

04/29/2011

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

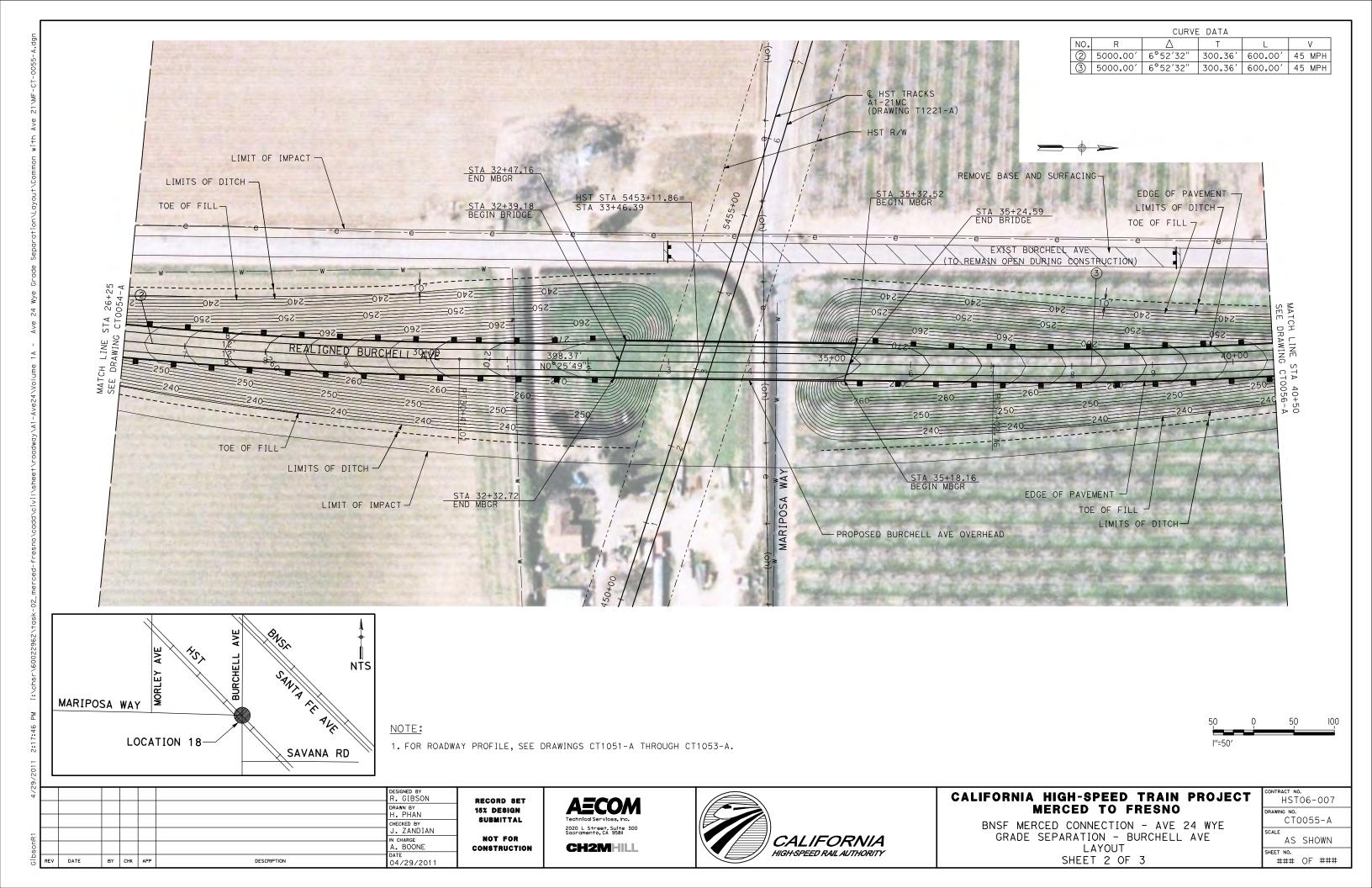
CURVE DATA

6°52′32''

300.36′ 600.00′ 45 MPH

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - BURCHELL AVE LAYOUT SHEET 1 OF 3

CONTRACT N	0.						
HST	06-007						
DRAWING NO.							
CTO	CT0054-A						
SCALE							
AS	SHOWN						
SHEET NO.							
###	OF ###						

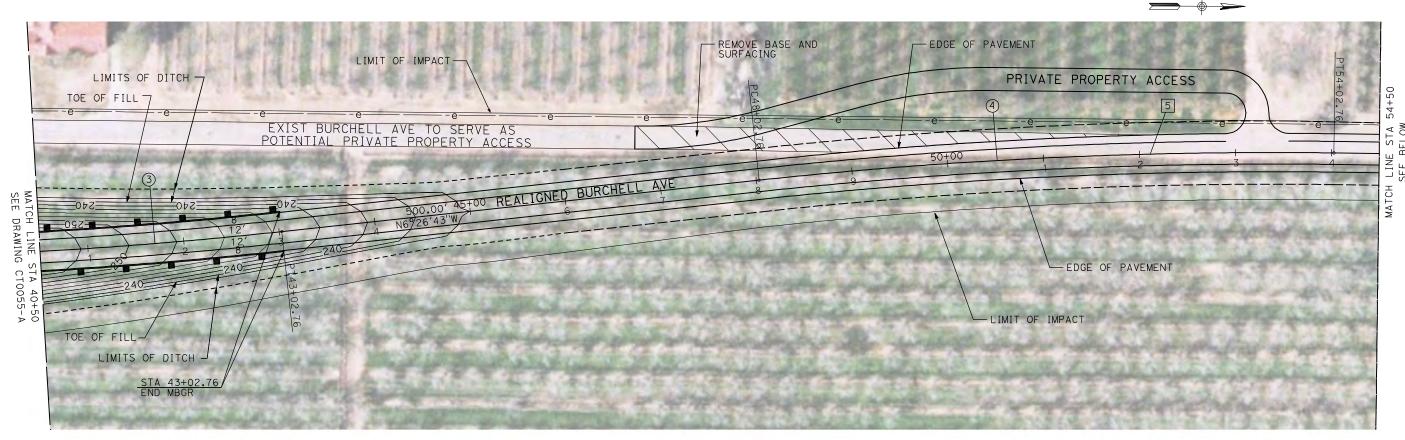


 CURVE DATA

 NO.
 R
 ∆
 T
 L
 V

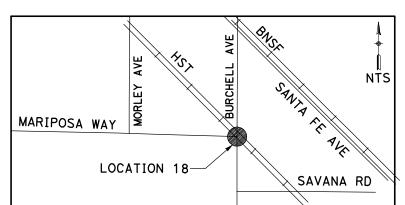
 ③
 5000.00′
 6°52′32″
 300.36′
 600.00′
 45 MPH

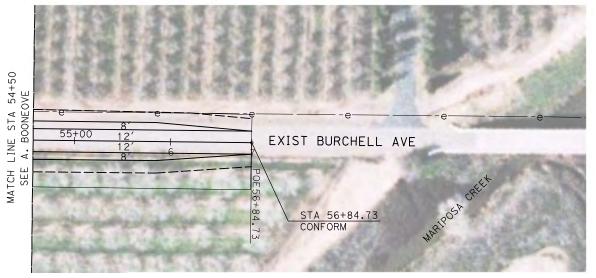
 ④
 5000.00′
 6°52′32″
 300.36′
 600.00′
 45 MPH

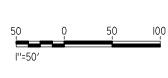


NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1051-A THROUGH CT1053-A.







						DESIGNED BY R. GIBSON	
						DRAWN BY H. PHAN	
						CHECKED BY	
						J. ZANDIAN IN CHARGE	
						A. BOONE	
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - BURCHELL AVE LAYOUT SHEET 3 OF 3

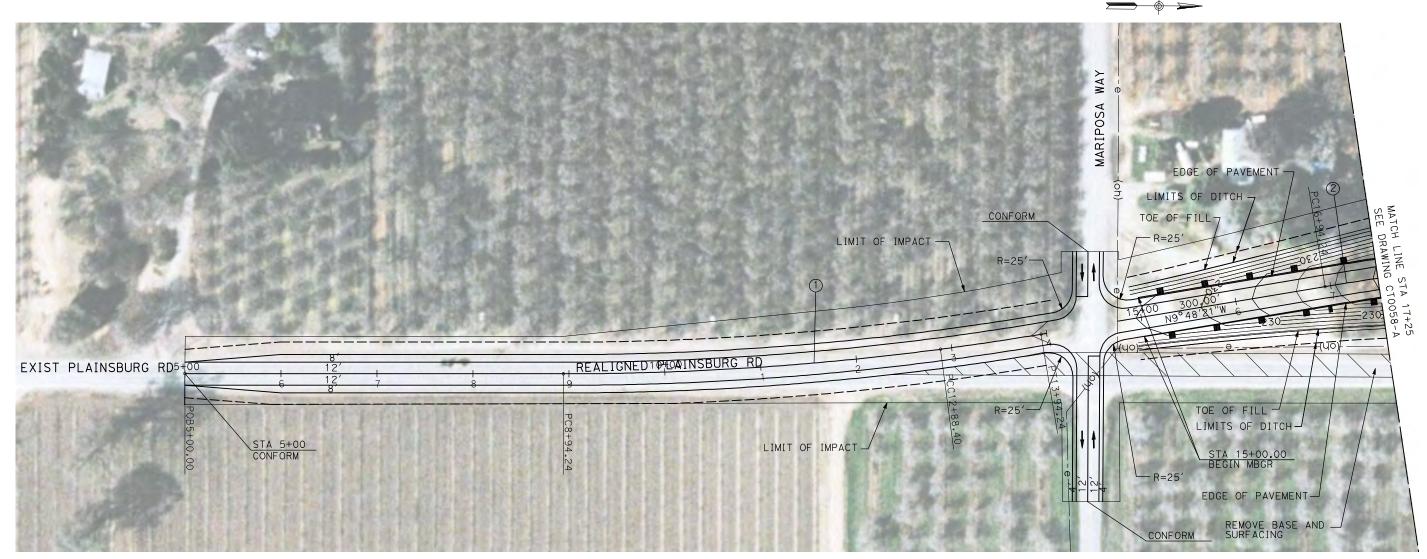
	CONTRACT NO. HST06-007				
DRAWING NO. CTOO56-A					
	AS SHOWN				
	SHEET NO. ### OF ###				

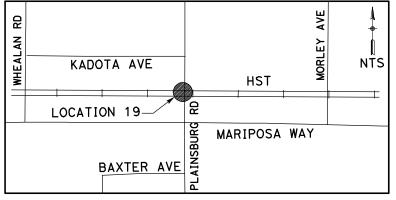
 CURVE DATA

 NO.
 R
 △
 T
 L
 V

 ①
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH

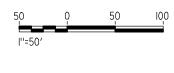
 ②
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1054-A THROUGH CT1056-A.



						DESIGNED BY R. GIBSON	Ī
						DRAWN BY H. PHAN	
						CHECKED BY J. ZANDIAN	
						IN CHARGE A. BOONE	
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Sulte 300
Sacramento, CA 958II
CH2MHILL

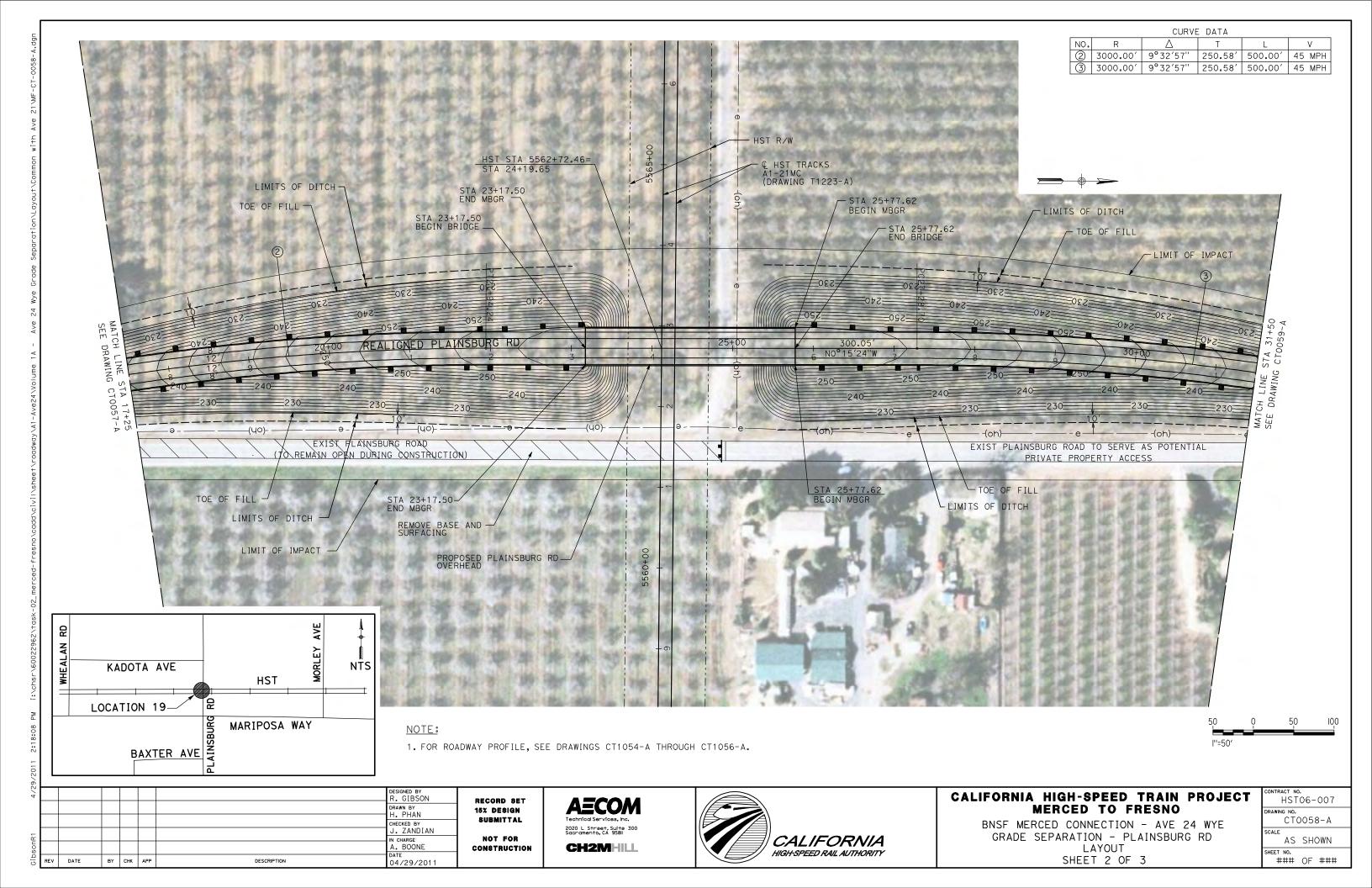


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD LAYOUT SHEET 1 OF 3

	HST	06-007	
DRAWIN	G NO.		
	CTO	0057-A	
SCALE			
	AS	SHOWN	
	DRAWIN	HST DRAWING NO. CT(SCALE	CT0057-A

AS SHOWN
SHEET NO.
OF

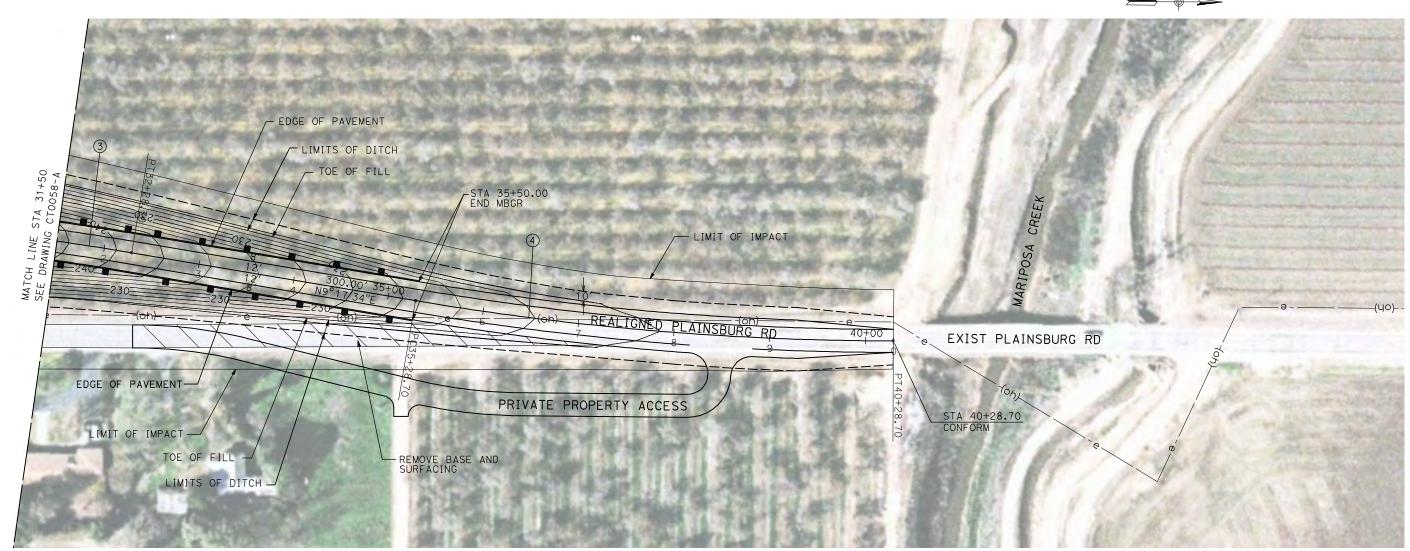


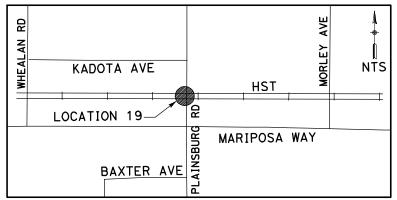
 CURVE DATA

 NO.
 R
 △
 T
 L
 V

 ③
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH

 ④
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1054-A THROUGH CT1056-A.



BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD LAYOUT SHEET 3 OF 3

•	CONTRACT NO. HST06-007
	DRAWING NO. CTOO59-A
	AS SHOWN
	SHEET NO. ### OF ###

						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
l						
						CHECKED BY
l						J. ZANDIAN
						IN CHARGE
						A. BOONE
_						DATE
REV	DATE	BY	CHK	APP	DESCRIPTION	04/29/2011

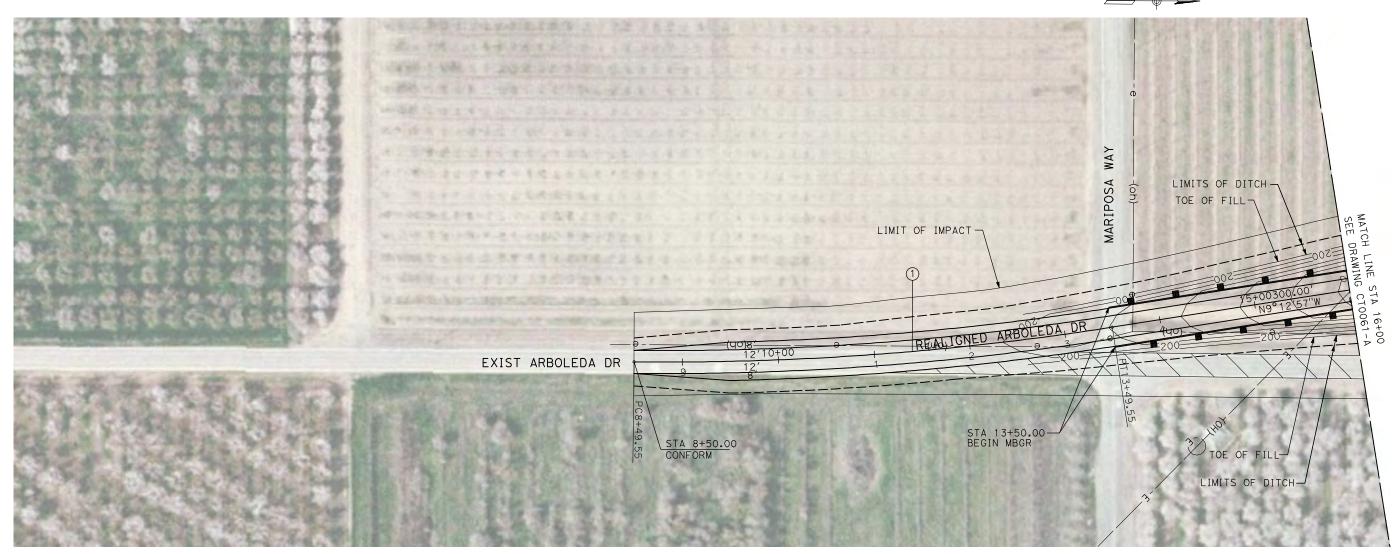
RECORD SET
15% DESIGN
SUBMITTAL

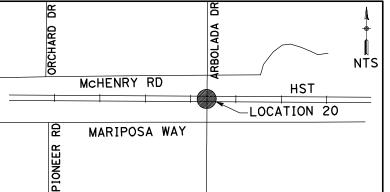
NOT FOR
CONSTRUCTION

RECORD SET
15% DESIGN
SUBMITTAL
2020 L
Socrame
CH









DESCRIPTION

BY CHK APP

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1057-A THROUGH CT1059-A.

RECORD SET

15% DESIGN SUBMITTAL

NOT FOR

CONSTRUCTION

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ARBOLEDA DR LAYOUT SHEET 1 OF 3

_	CONTRACT NO.
	HST06-007
	DRAWING NO.
	CT0060-A
	SCALE
	AS SHOWN

AS SHOWN

SHEET NO.

OF

DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE A. BOONE
DATE 04/29/2011



BY CHK APP

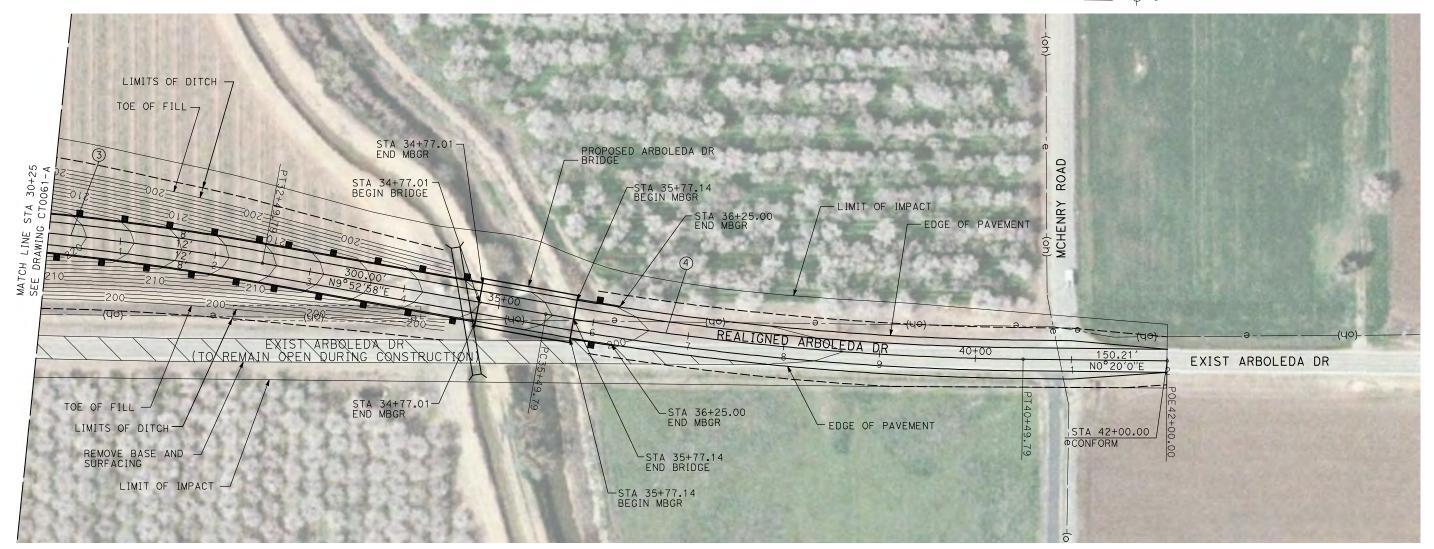
DESCRIPTION

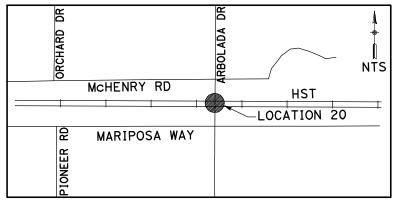
04/29/2011

SHEET 2 OF 3

OF

CURVE DATA 3 3000.00′ 9°32′57" 250.58′ 500.00' 45 MPH 4 3000.00' 9°32'57" 250.58' 500.00' 45 MPH





1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1057-A THROUGH CT1059-A.



BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ARBOLEDA DR LAYOUT SHEET 3 OF 3

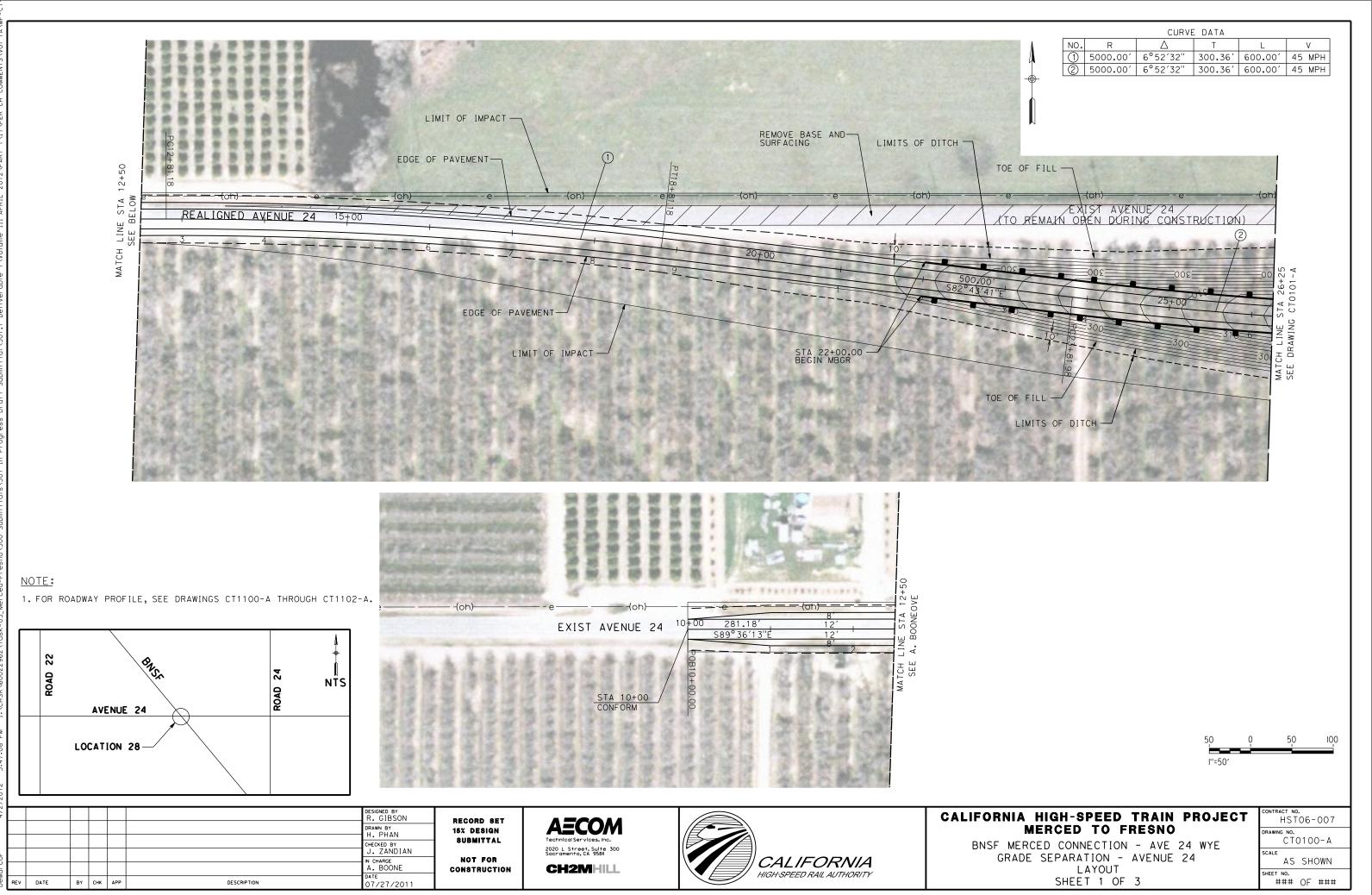
	CONTRACT NO. HST06-007					
DRAWING NO. CT0062-A						
	AS SHOWN					
	SHEET NO. ### OF ###					

					DESIGNED BY R. GIBSON
					DRAWN BY H. PHAN
					CHECKED BY
					J. ZANDIAN
					N CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL





ROAD

AVENUE 24

LOCATION 28-

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1100-A THROUGH CT1102-A. DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY J. ZANDIAN N CHARGE A. BOONE REV DATE BY CHK APP DESCRIPTION 04/29/2011

NTS

NOTE:

ROAD

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

RECORD SET

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL





BNSF N GRADE SEPARATION - AVENUE 24 LAYOUT SHEET 2 OF 3

_	CONTRA	ACT NO	١.			
J	HSR06-007					
	DRAWING NO.					
	CT0101-A					
	SCALE					
		AS	SHOWN			

OF

l <u>-</u> 2∩.	
IIA HIGH-SPEED TRAIN PROJECT	CONTRACT NO. HSR06-007
MERCED TO FRESNO MERCED CONNECTION - AVE 24 WYE	DRAWING NO. CTO101-A SCALE

CURVE DATA

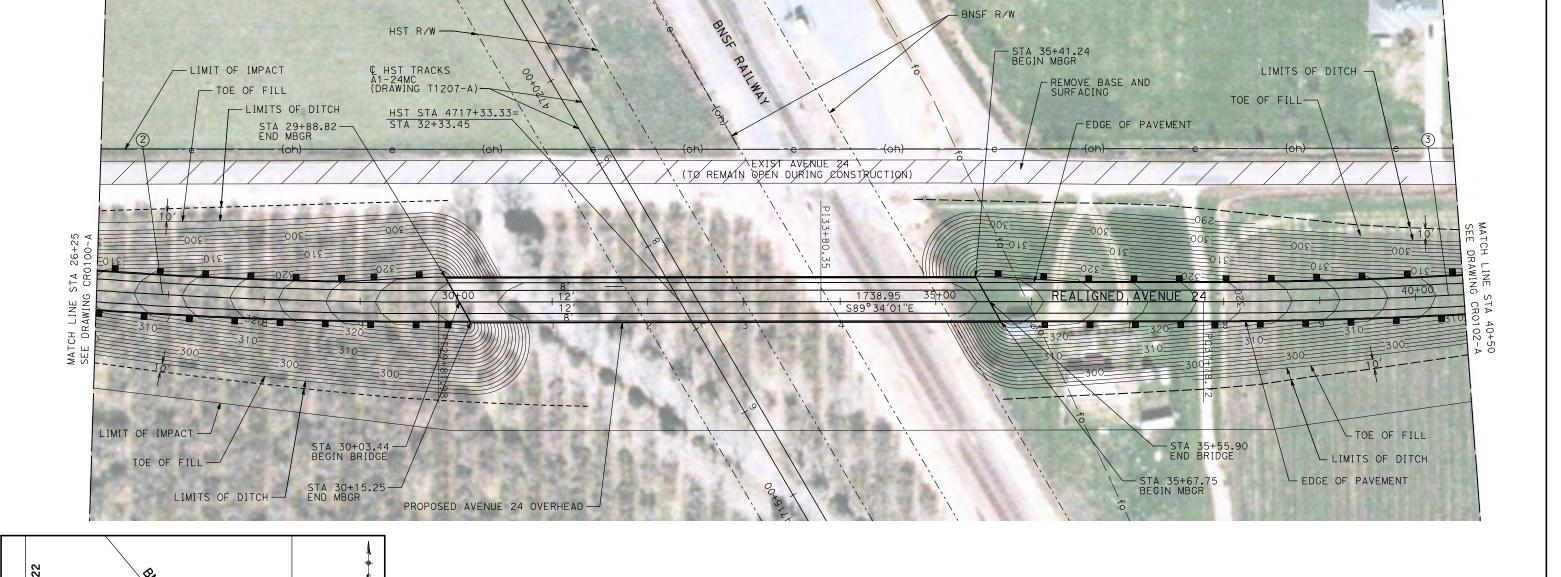
3 5000.00' 6°52'32" 300.36' 600.00' 45 MPH

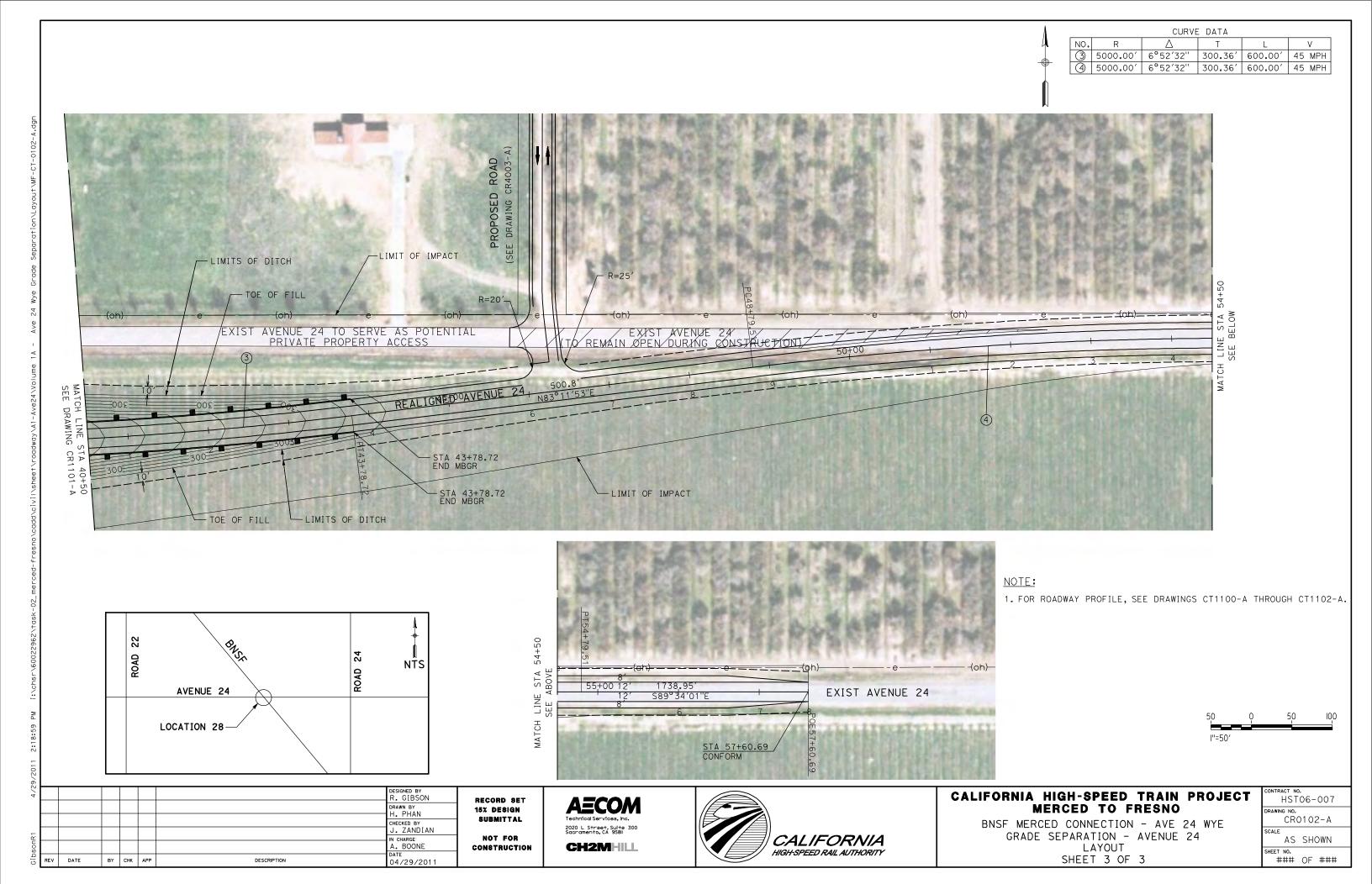
300.36′ 600.00′ 45 MPH

Δ

6°52′32"

② 5000.00′





AVENUE 26

LOCATION 29-

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN N CHARGE A. BOONE BY CHK APP DESCRIPTION 04/29/2011

AVENUE 26

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

RECORD SET

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 26 LAYOUT SHEET 1 OF 4

CONTRACT NO.
HST06-007
DRAWING NO.
CT0103-A
SCALE
V C C U/N/VI

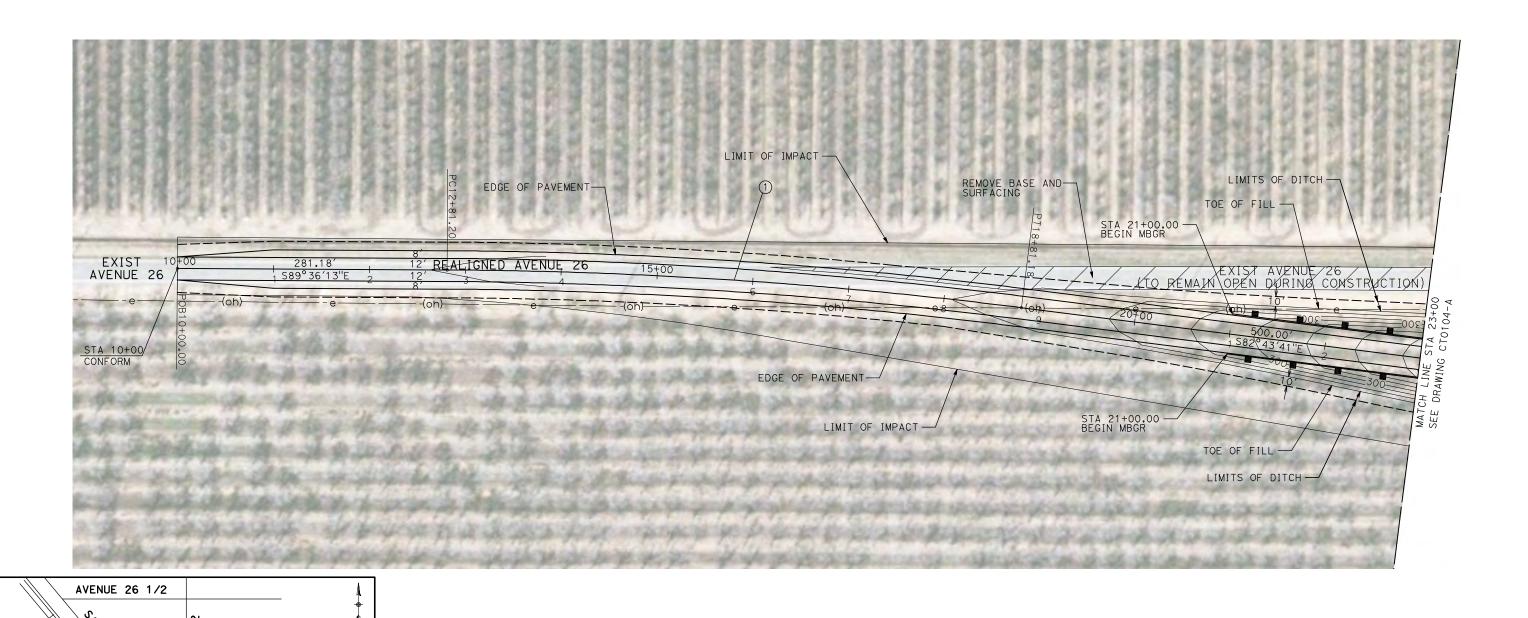
CURVE DATA

300.36' 600.00' 45 MPH

NO. R Δ
1 5000.00′ 6°52′32"

AS SHOWN

OF



NOTE:

NTS

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1103-A THROUGH CT1106-A.

AVENUE 26

LOCATION 29-

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY J. ZANDIAN N CHARGE A. BOONE BY CHK APP DESCRIPTION 04/29/2011

AVENUE 26

NTS

NOTE:

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

RECORD SET

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1103-A THROUGH CT1106-A.

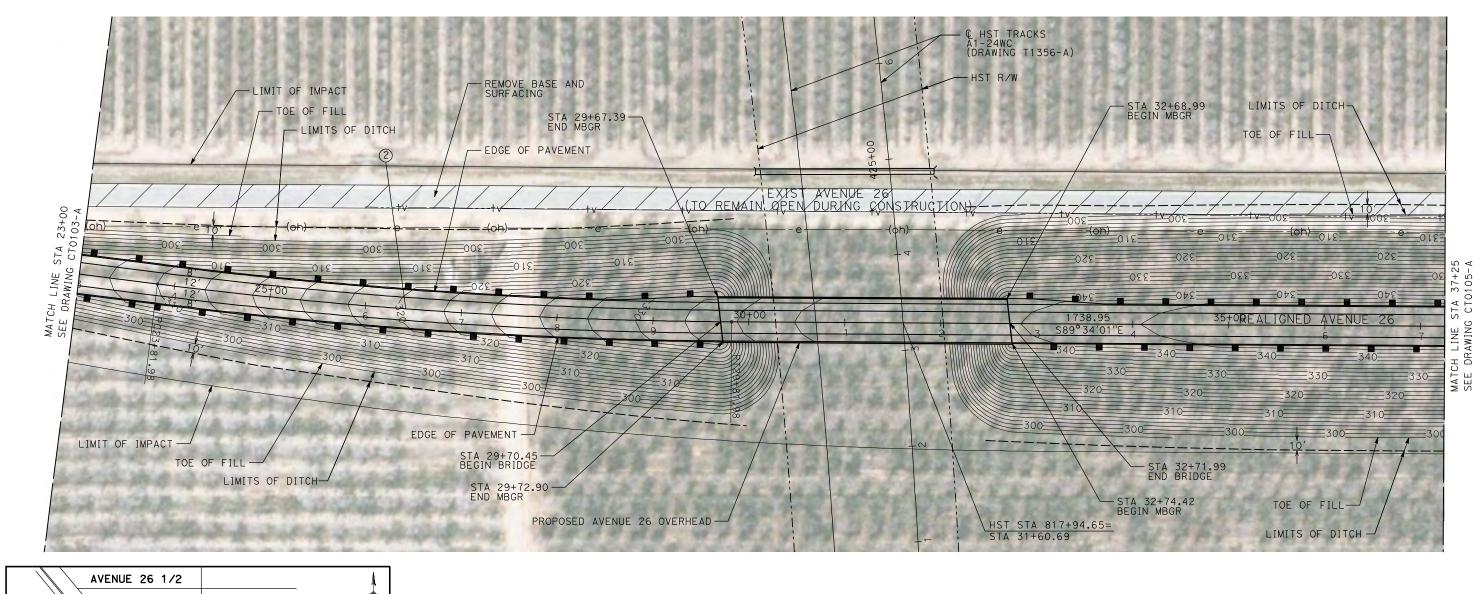




BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 26 LAYOUT SHEET 2 OF 4

 CONTRACT NO.
HST06-007
DRAWING NO.
CT0104-A
SCALE
AS SHOWN
SHEET NO.

OF



CURVE DATA

3 5000.00' 6°52'32" 300.36' 600.00' 45 MPH

300.36′ 600.00′ 45 MPH

CALIFORNIA HIGH-SPEED TRAIN PROJECT

	CALIFORNIA HIGH-SPEED RAIL AUTHORITY

HIGH-SPEED RAIL AUTHORITY

SHEET 3 OF 4

OF

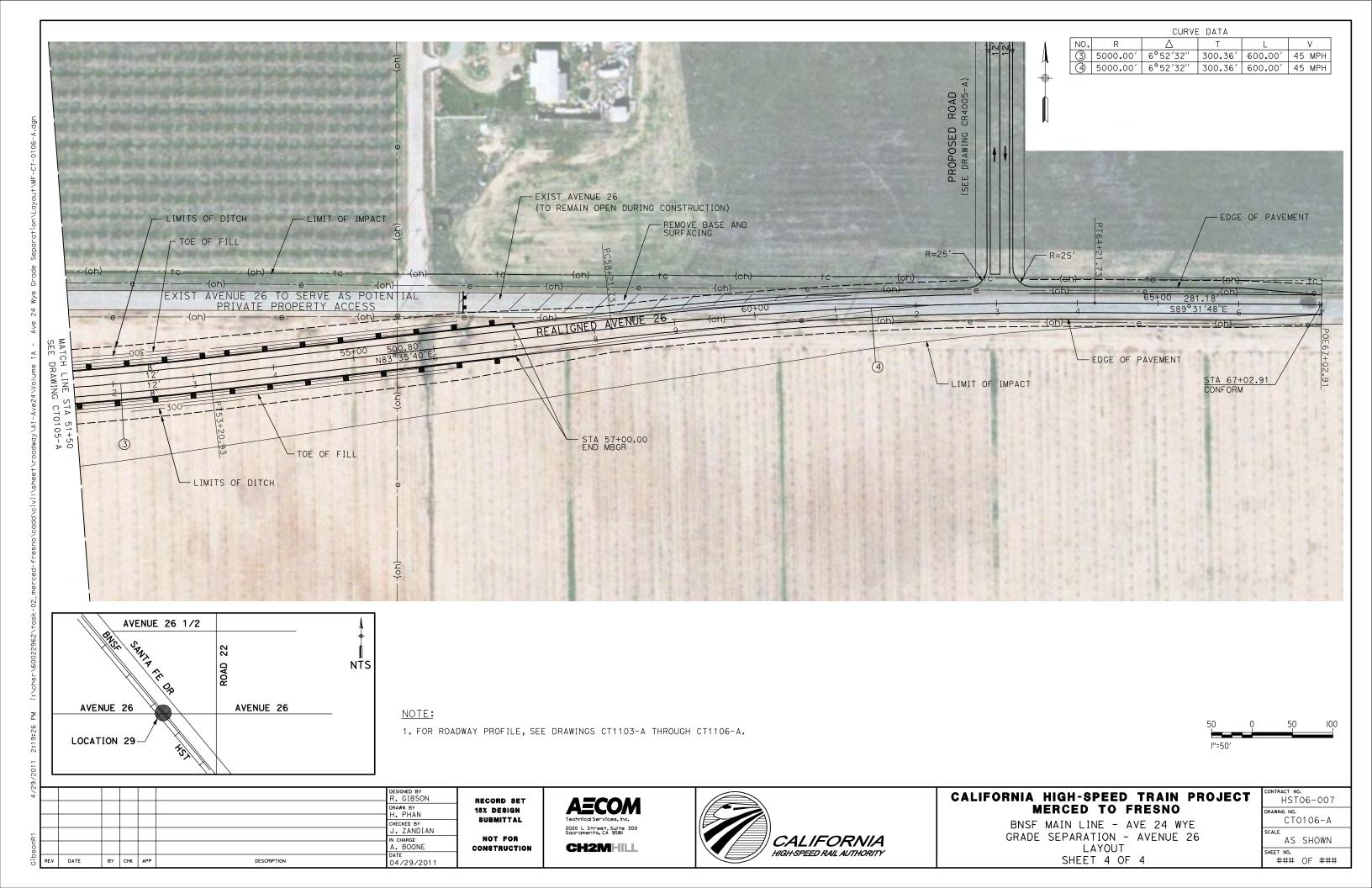
CONSTRUCTION

04/29/2011

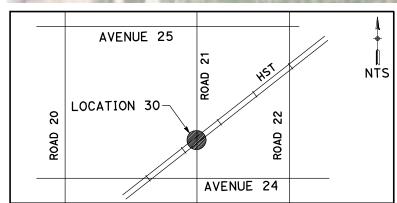
REV DATE

BY CHK APP

DESCRIPTION



② 3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH REMOVE BASE AND SURFACING _LIMIT OF IMPACT LIMITS OF DITCH -_ EDGE OF PAVEMENT TOE OF FILL-EXIST ROAD 21 10-00 REALIGNED ROAD 2 STA 10+00 CONFORM LIMIT OF IMPACT-EDGE OF PAVEMENT-TOE OF FILL -LIMITS OF DITCH-



NOTE:

DADWAY PROFILE, SEE DRAWINGS CT1107-A THROUGH CT1109-A.



					_	
BNSF	WYE	CONNECTION	1 –	AVE	24	W١
GI	RADE	SEPARATION	۱ –	ROAD	21	1
		LAYOU	Τ			
		CHEET 1 (ΛF :	7		

T	CONTRACT NO. HST06-007					
	DRAWING NO. CTO107-A					
	SCALE AS SHOWN					
	DRAWING NO. CTO107-A					

NYE SHEET NO. ### OF ### SHEET 1 OF 3

CURVE DATA NO. R Δ T L V

3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH

		-			//	AVENUE 24		1. FOR ROA
L				-//				
								DESIGNED BY R. GIBSON
								DRAWN BY H. PHAN
								J. ZANDIAN
								IN CHARGE A. BOONE
ΕV	DATE	вү	СНК	APP		DESCRIPTI	ON	DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL



3000.00 9°32′57" 9°32′57" 250.58′ 500.00′ 45 MPH 3 3000.00′ © HST TRACKS A1-24WC (DRAWING T1354-A/T1374-A) LIMIT OF IMPACT--REMOVE BASE AND SURFACING -EDGE OF PAVEMENT STA 28+60.36 BEGIN MBGR LIMITS OF DITCH - LIMITS OF DITCH TOE OF FILL TOE OF FILL LIMITS OF DITCH -LIMITS OF DITCH TOE OF FILL-STA 26+02.58 BEGIN BRIDGE HST STA 336+75.78=

STA 27+15.32

PROPOSED ROAD 21—
OVERHEAD STA 29+06.35 BEGIN MBGR -EDGE OF PAVEMENT LIMIT OF IMPACT STA 26+23.13-END MBGR AVENUE 25 NTS LOCATION 30-1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1107-A THROUGH CT1109-A. AVENUE 24 DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT **AECOM** RECORD SET DRAWN BY H. PHAN MERCED TO FRESNO 15% DESIGN SUBMITTAL CHECKED BY
J. ZANDIAN BNSF WYE CONNECTION - AVE 24 WYE 2020 L Street, Suite 300 Sacramento, CA 95811 GRADE SEPARATION - ROAD 21 NOT FOR CALIFORNIA IN CHARGE A. BOONE **CH2M**HILL LAYOUT CONSTRUCTION HIGH-SPEED RAIL AUTHORITY SHEET 2 OF 3

BY CHK APP

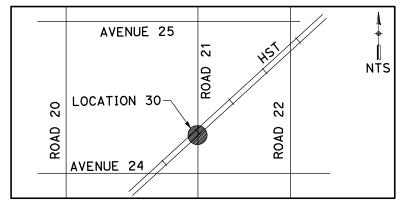
DESCRIPTION

04/29/2011

CURVE DATA 250.58 500.00' 45 MPH

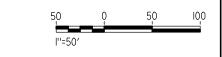
RAWING NO. CT0108-A AS SHOWN ### OF ###

HST06-007



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1107-A THROUGH CT1109-A.



CURVE DATA

500.00' 45 MPH

						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN
						IN CHARGE A. BOONE
ΕV	DATE	BY	снк	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF WYE CONNECTION - AVE 24 WYE GRADE SEPARATION - ROAD 21 LAYOUT SHEET 3 OF 3

CONTRACT NO. HST06-007					
DRAWING NO. CTO109-A					
SCALE AS SHOWN					
SHEET NO. ### OF ###					

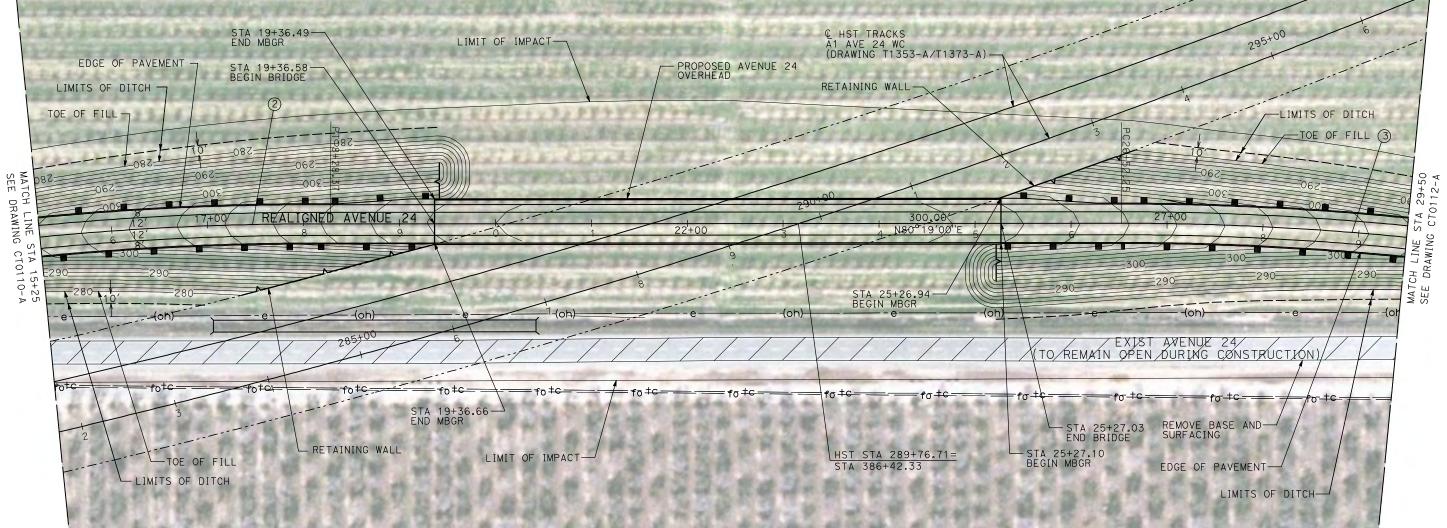
BY CHK APP

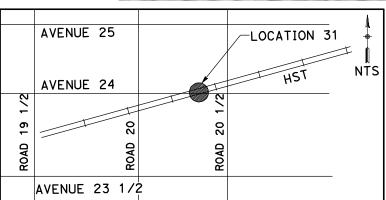
DESCRIPTION

04/29/2011

OF

CURVE DATA ② 3000.00′ 9°32′57" 250.58' 500.00' 45 MPH 3 3000.00′ 9°32′57" 250.58' 500.00' 45 MPH

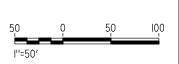




DESCRIPTION

BY CHK APP

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1110-A THROUGH CT1112-A.



DESIGNED BY R. GIBSON
DRAWN BY H. PHAN
CHECKED BY J. ZANDIAN
IN CHARGE
A. BOONE DATE
04/29/2011

RECORD SET **AECOM** 15% DESIGN SUBMITTAL 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CH2MHILL CONSTRUCTION

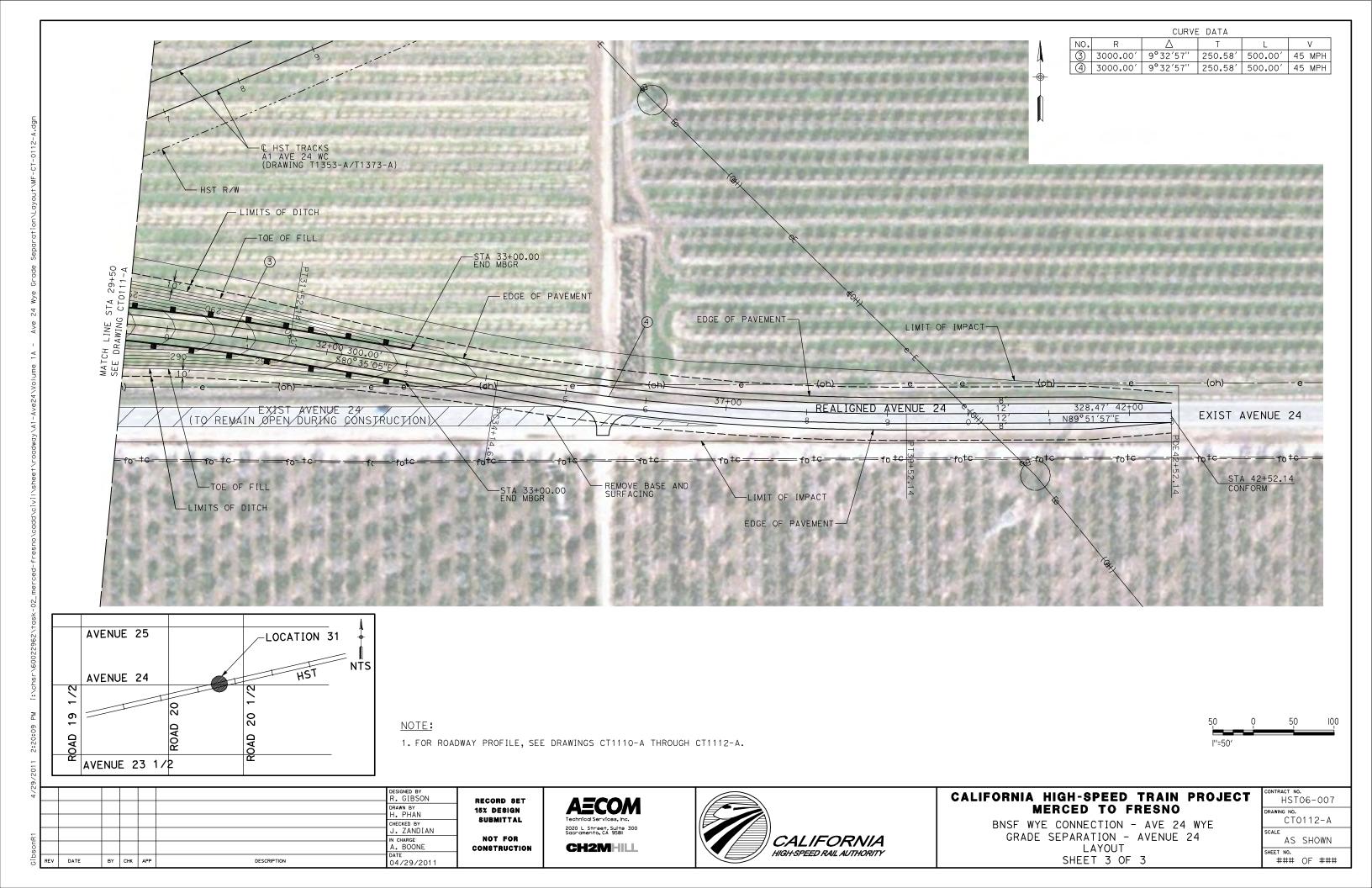


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF WYE CONNECTION - AVE 24 WYE GRADE SEPARATION - AVENUE 24 LAYOUT SHEET 2 OF 3

CONTRA	ACT NO	١.	
-	HST	06-007	
DRAWIN	G NO.		
	CTO	D111-A	
SCALE			
	AS	SHOWN	

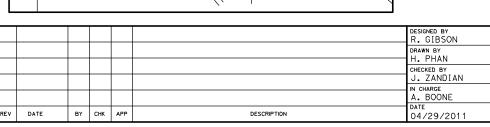
SHEET NO. ### OF ###





AVENUE 20

AVENUE 19 1/2



-LOCATION 32

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION







BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 20 LAYOUT SHEET 1 OF 3

T	CONTRACT NO. HST06-007
	DRAWING NO. CTO113-A
	SCALE AS SHOWN

CURVE DATA
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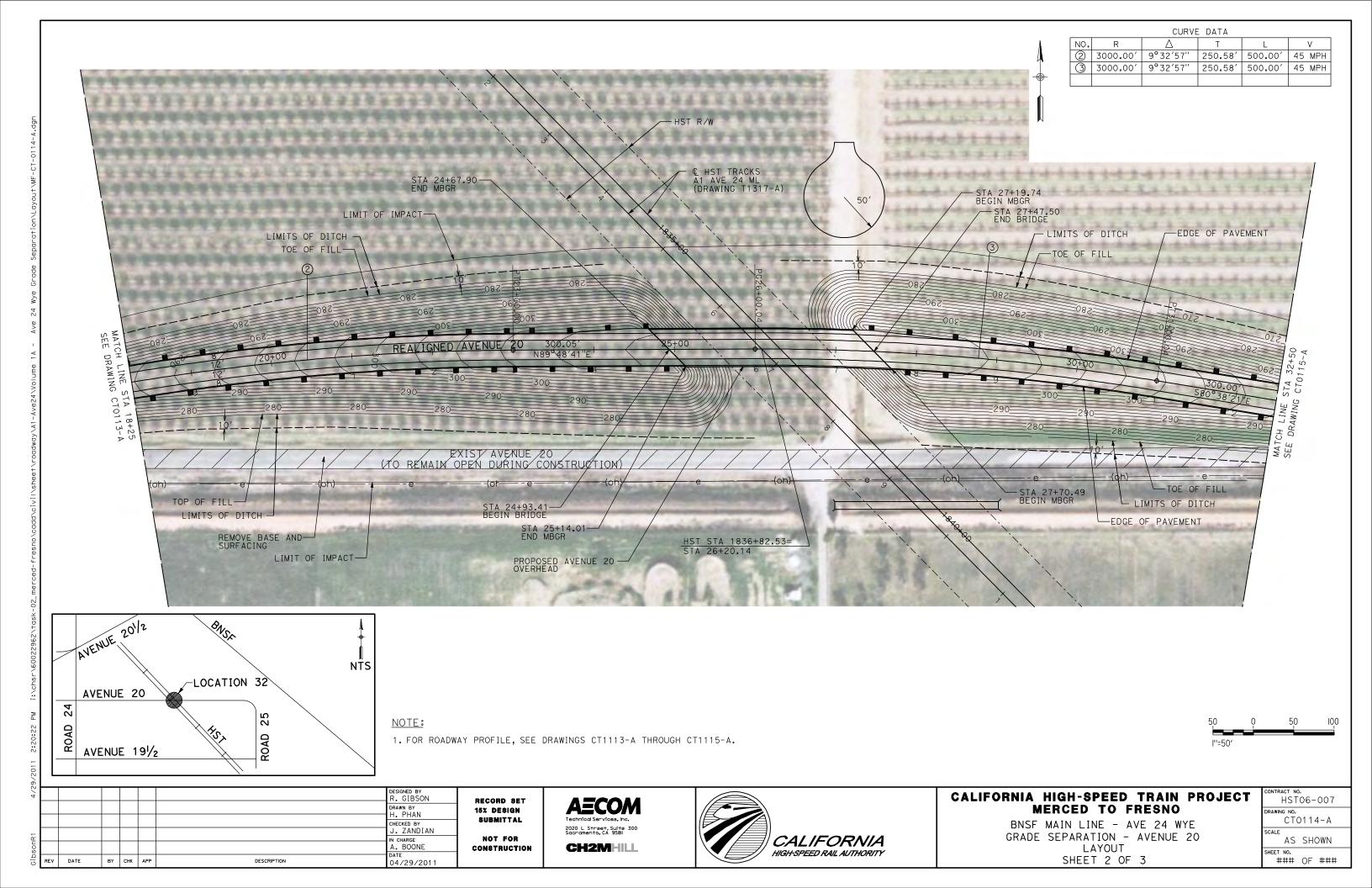
 ①
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH
 ② 3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH

SHEET NO. ### OF ###

	STA 16+00.00 LIMITS OF DITCH TOE OF FILL
	DE OF THE SEE OF THE S
EXIST AVENUE 20 e	12' REALIST 12' AVENUE 20 12' 12' 12' 13
STA 10+00 CONFORM	LIMITS OF DITCH — REMOVE BASE AND SURFACING

NTS	
	NOTE:
	1 FOR ROADWAY

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1113-A THROUGH CT1115-A.



DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE 04/29/2011 BY CHK APP DESCRIPTION

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

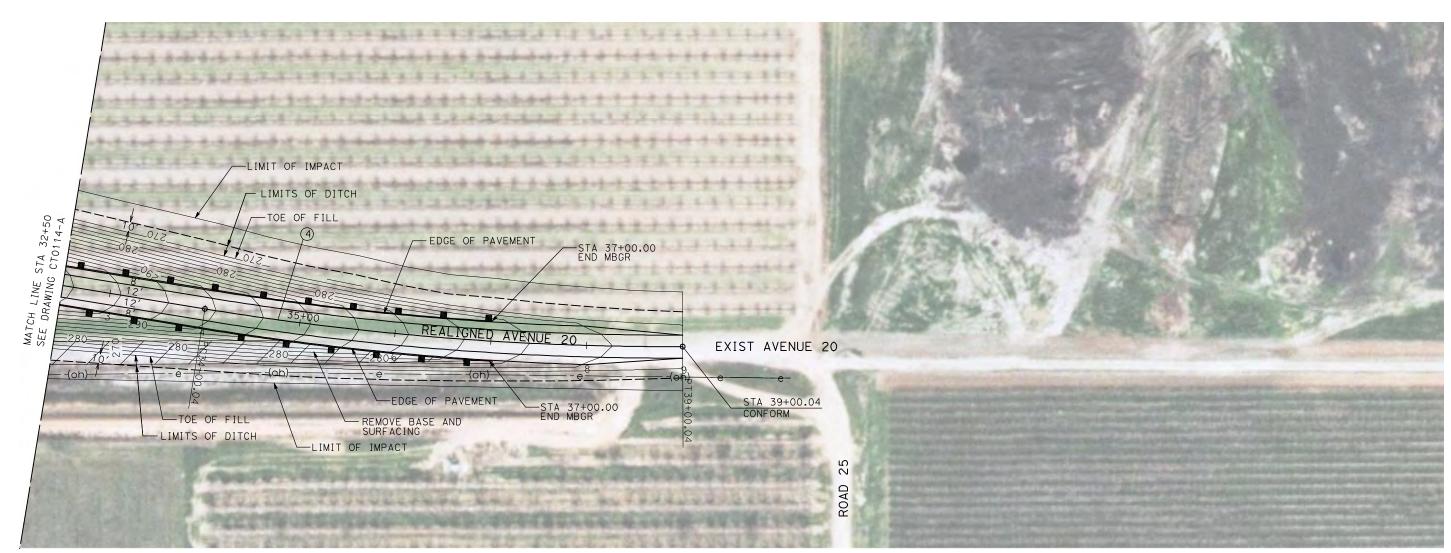
BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 20 LAYOUT SHEET 3 OF 3

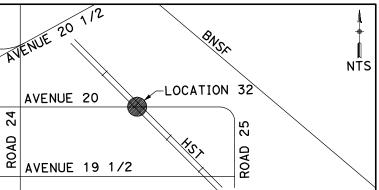
T	CONTRACT NO. HST06-007
	DRAWING NO. CTO115-A
	SCALE

CURVE DATA
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 ④
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH

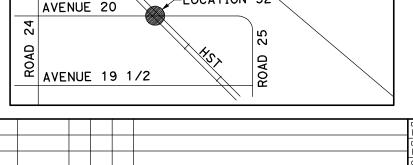
> AS SHOWN SHEET NO. ###





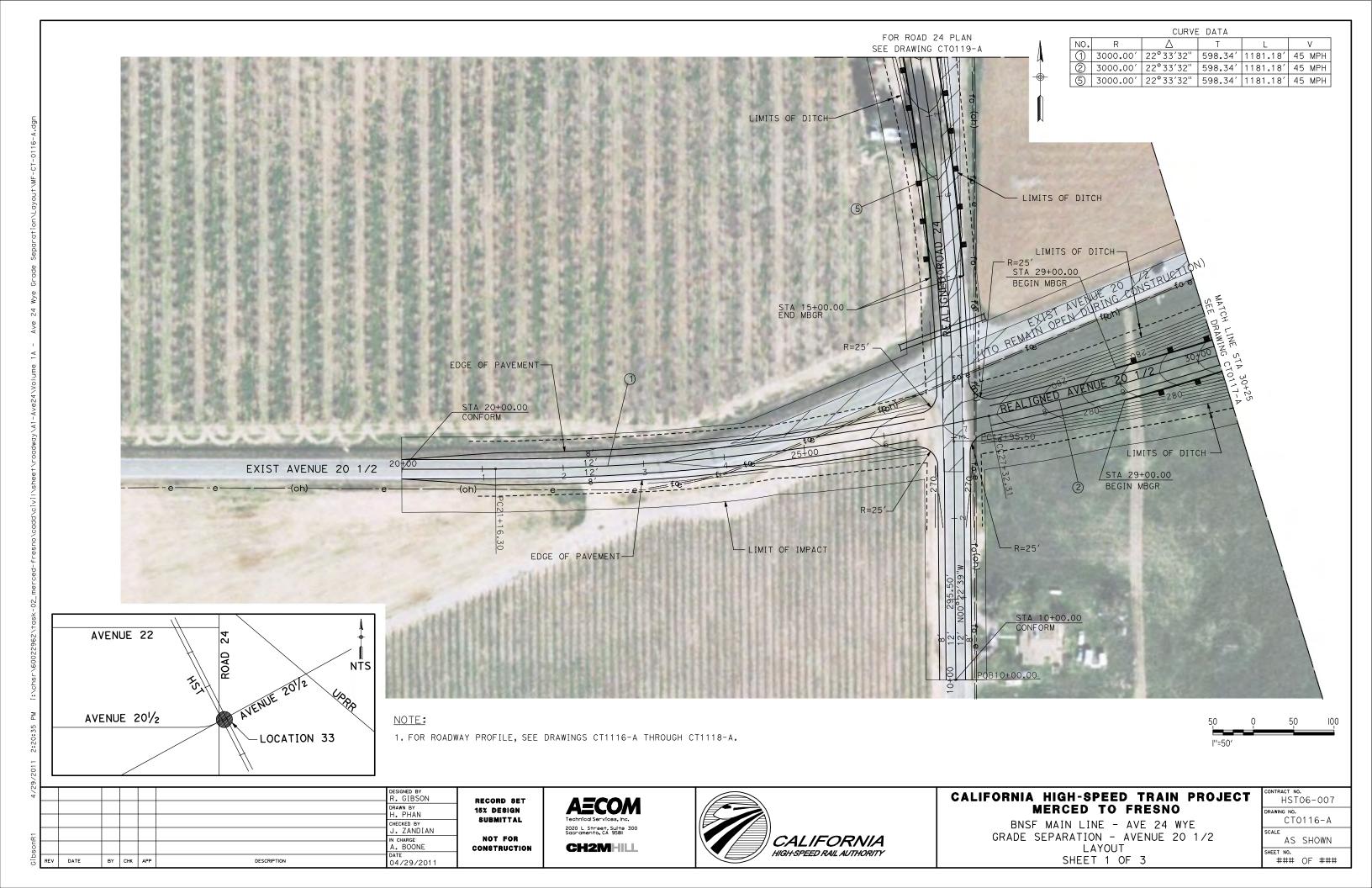
NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1113-A THROUGH CT1115-A.



AECOM 2020 L Street, Suite 300 Sacramento, CA 95811





CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

NOT FOR

CONSTRUCTION

CH2MHILL

IN CHARGE A. BOONE

04/29/2011

BY CHK APP

DESCRIPTION

CURVE DATA

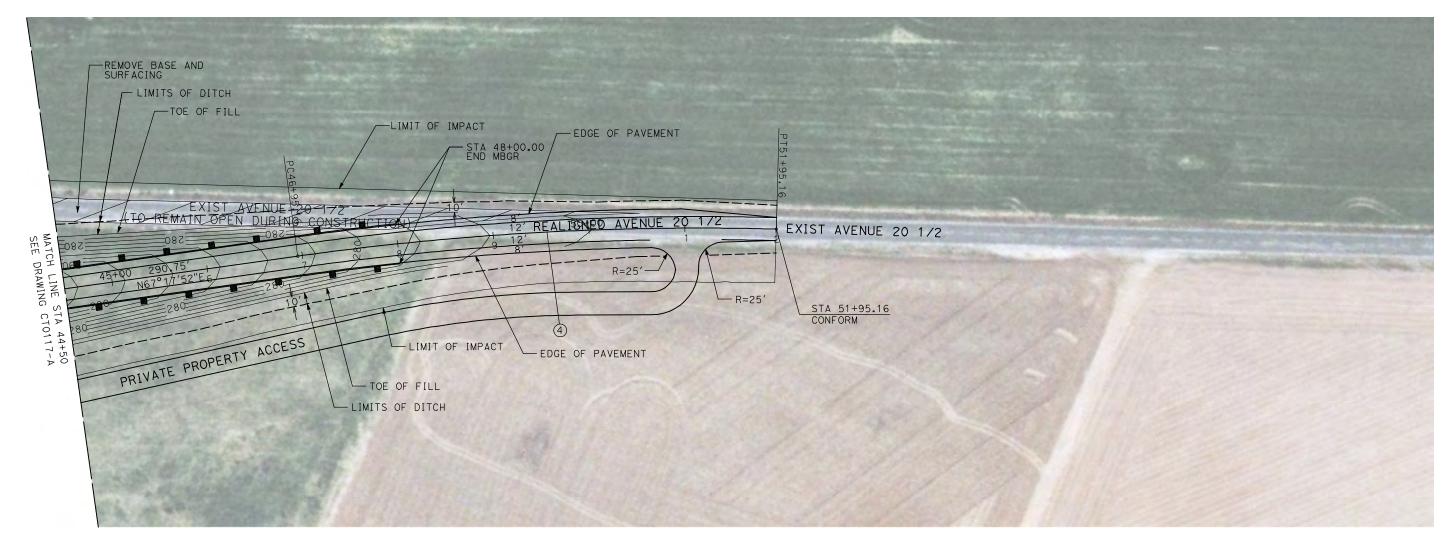
GRADE SEPARATION - AVENUE 20 1/2

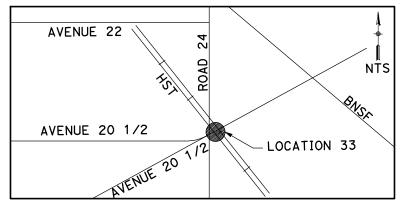
LAYOUT

SHEET 2 OF 3

AS SHOWN

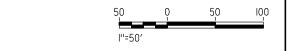
OF





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT11116-A THROUGH CT11118-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN IN CHARGE
						A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - AVENUE 20 1/2
LAYOUT
SHEET 3 OF 3

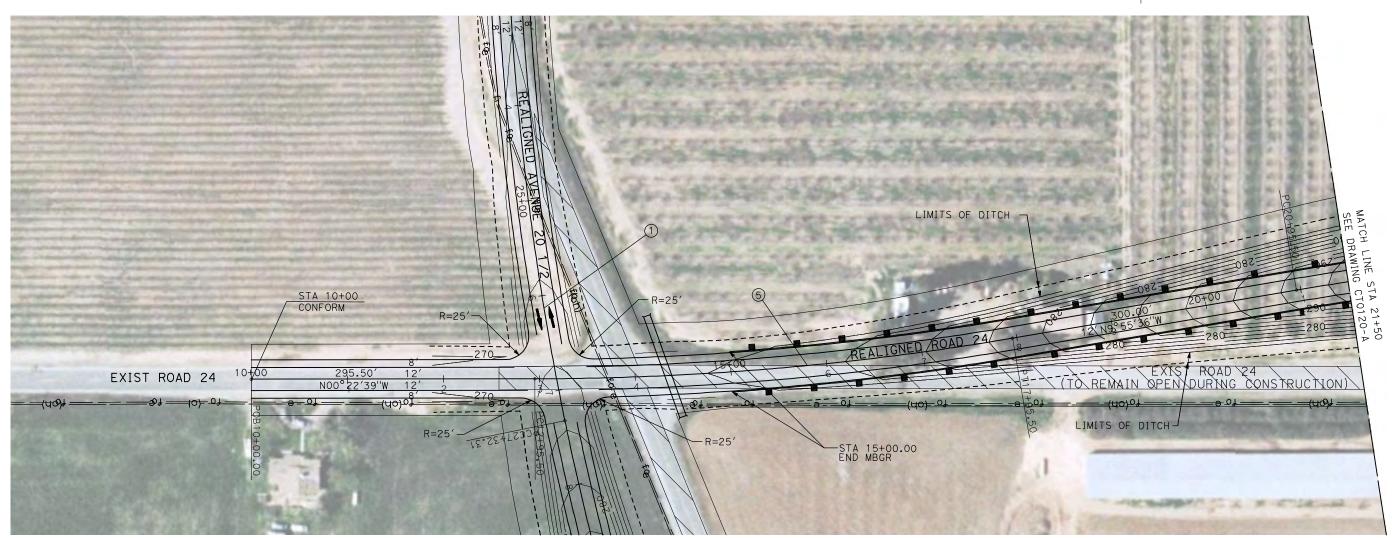
CONTRACT NO.
HST06-007
DRAWING NO. CTO118-A
SCALE
AS SHOWN
SHEET NO. ### OF ###

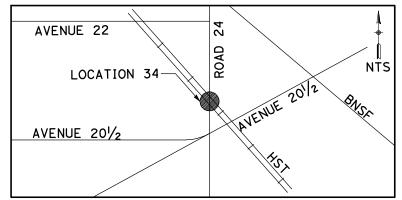
 CURVE DATA

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 ①
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

 ⑤
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH





DESCRIPTION

BY CHK APP

NO IE:

DESIGNED BY R. GIBSON

DRAWN BY H. PHAN

N CHARGE A. BOONE

CHECKED BY
J. ZANDIAN

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1119-A THROUGH CT1121-A.



BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 24 LAYOUT SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CTO119-A
SCALE AS SHOWN
SHEET NO. ### OF ###

SUBMITTAL NOT FOR Construction

RECORD SET

15% DESIGN

AECOM
Technical Services, Inc.
2020 L Street, Sulte 300
Sacramento, CA 958II
CH2MHILL



HIGH-SPEED RAIL AUTHORITY

CONSTRUCTION

04/29/2011

BY CHK APP

DESCRIPTION

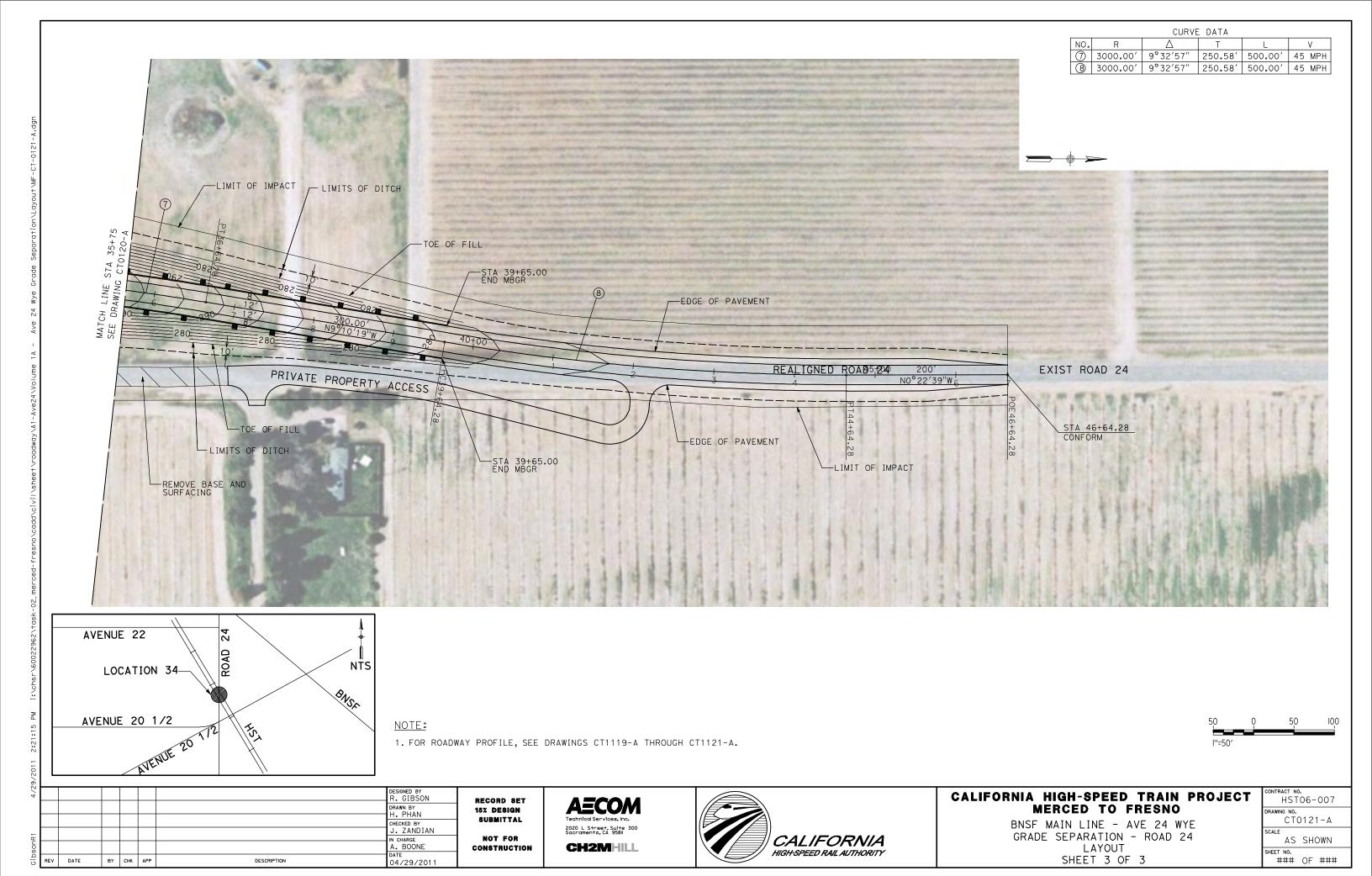
CURVE DATA

LAYOUT

SHEET 2 OF 3

500.00' 45 MPH

OF

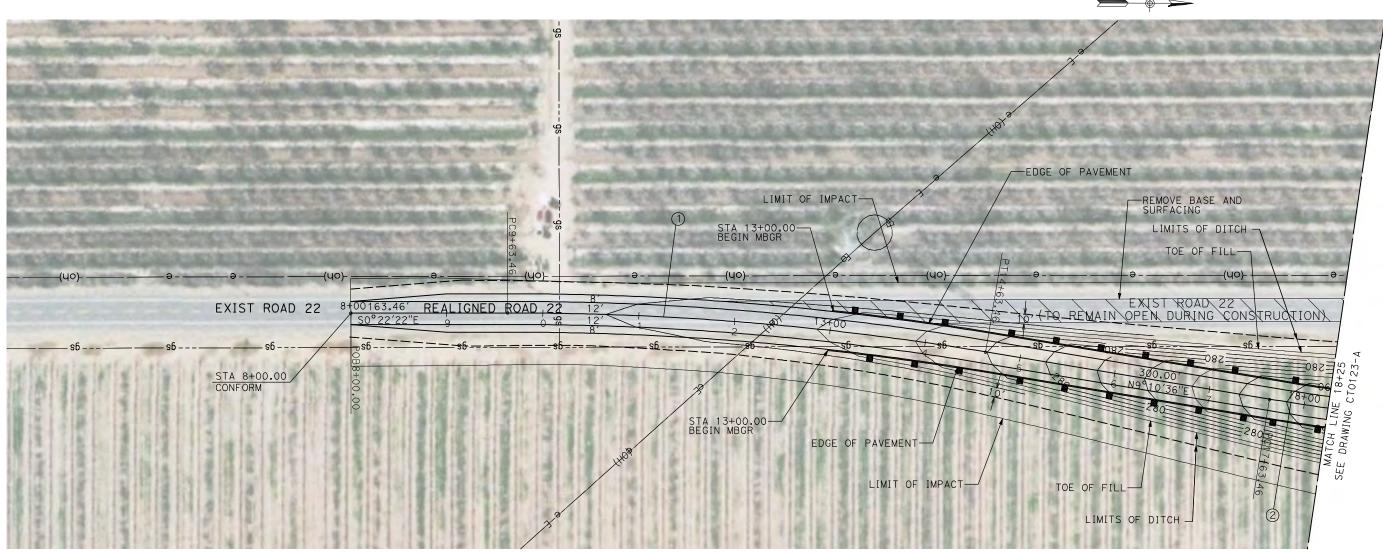


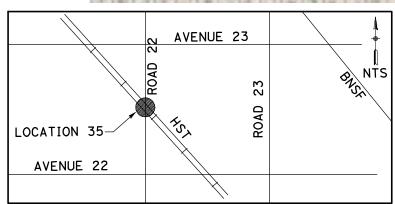
 CURVE DATA

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 ①
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

 ②
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH





1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1122-A THROUGH CT1124-A.

CALIFORNIA HIGH-SPEED TRAIN PROJECT Merced to Fresno

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 22 LAYOUT SHEET 1 OF 3

Ĭ	CONTRACT NO.
	HST06-007
	DRAWING NO.
	CT0122-A
	SCALE

AS SHOWN

SHEET NO.

OF

						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY J. ZANDIAN
_						IN CHARGE A. BOONE
,	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II
CH2MHILL



BY CHK APP

DESCRIPTION

04/29/2011

LOCATION 35-

AVENUE 22

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN N CHARGE A. BOONE DATE 04/29/2011 BY CHK APP DESCRIPTION

RECORD SET 15% DESIGN



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 22 LAYOUT SHEET 3 OF 3

T	CONTRACT NO. HST06-007
	DRAWING NO. CTO124-A
	SCALE

CURVE DATA

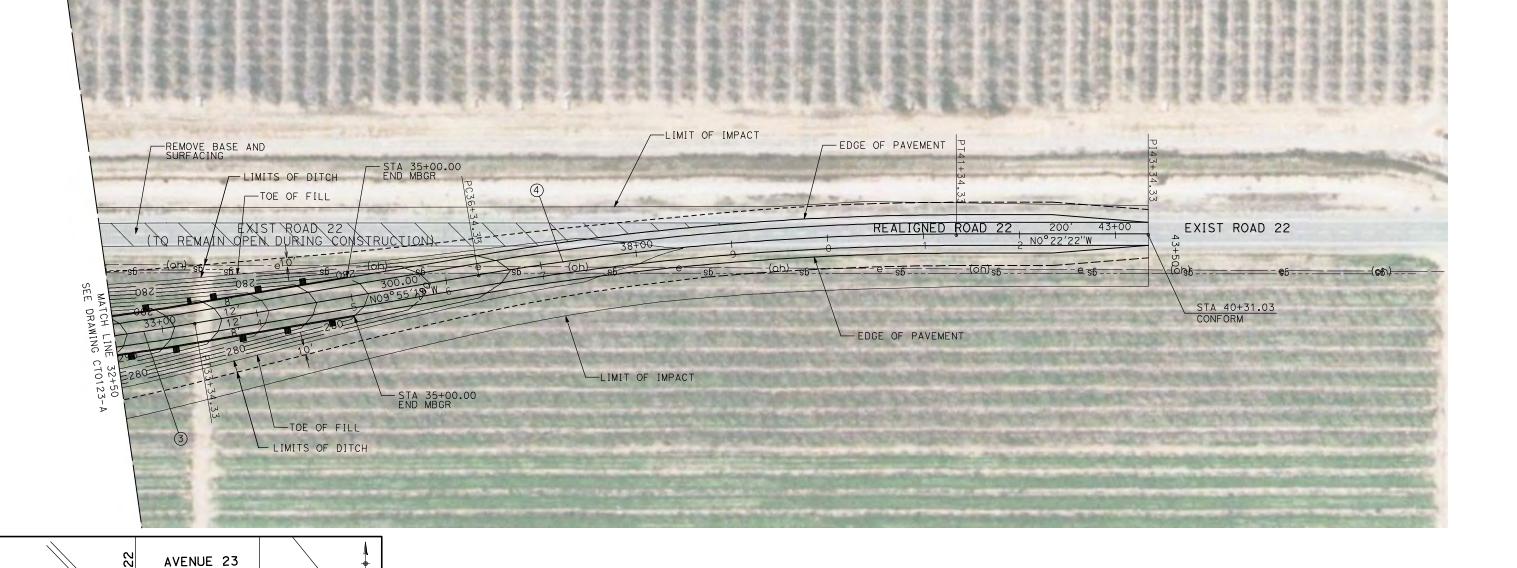
45 MPH

500.00' 45 MPH

9°32′57" | 250.58′

NO. R 3 3000.00′

AS SHOWN ### OF ###



NTS

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1122-A THROUGH CT1124-A.

SUBMITTAL NOT FOR CONSTRUCTION



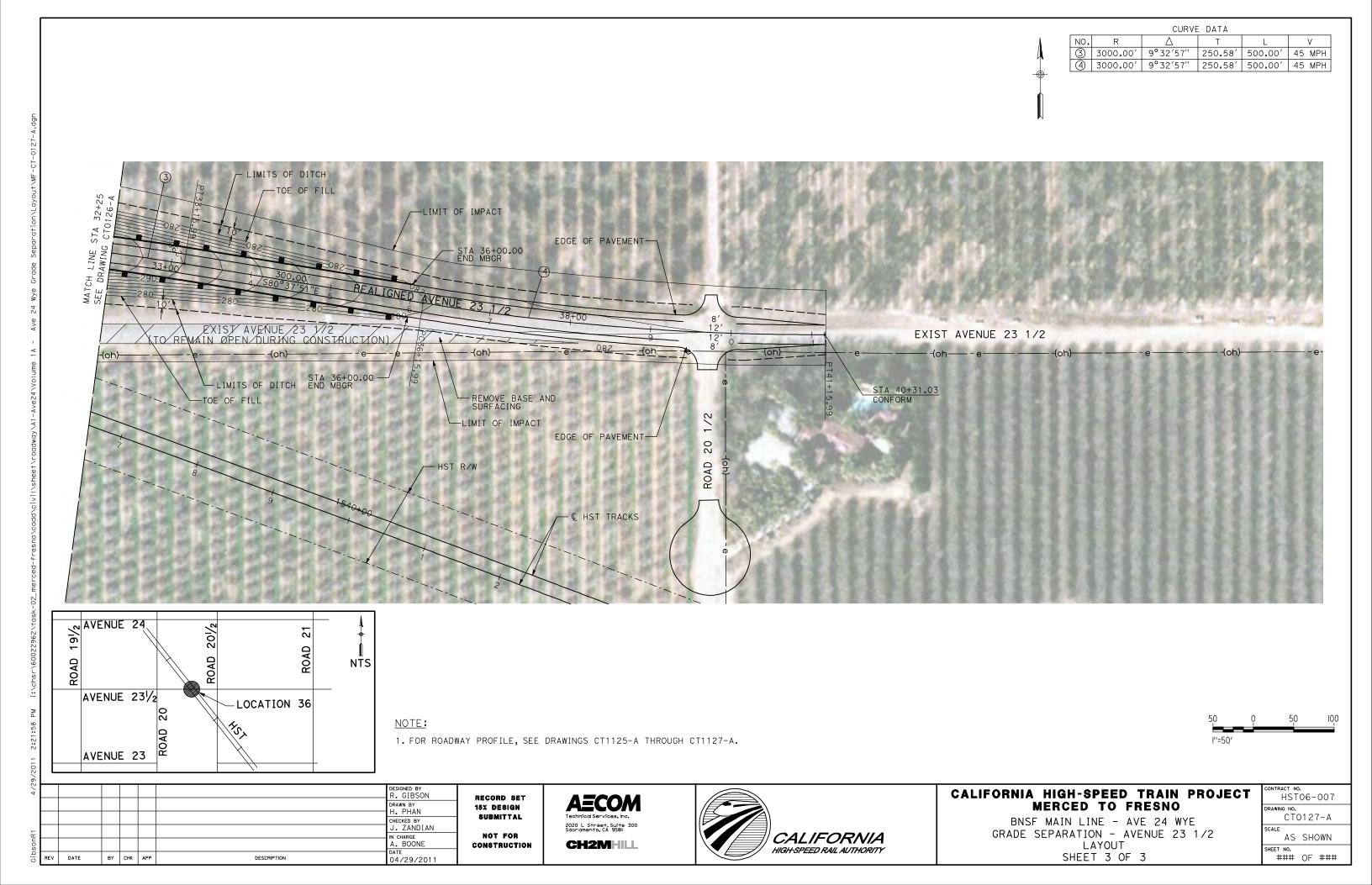


BY CHK APP

DESCRIPTION

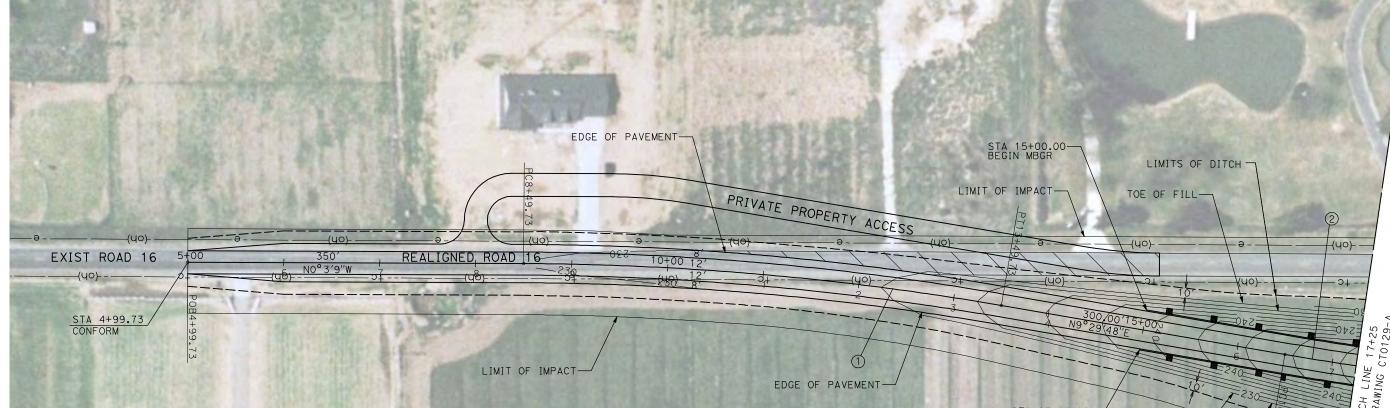
04/29/2011

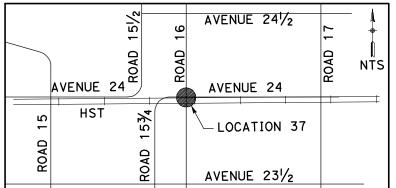
OF



EXIST ROAD 16 5-00 350 REALIGNED ROAD 15 - 064 10-101 12 - 100 12







DESCRIPTION

BY CHK APP

IOTF:

DESIGNED BY R. GIBSON

DRAWN BY H. PHAN

N CHARGE A. BOONE

DATE 04/29/2011

CHECKED BY
J. ZANDIAN

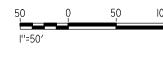
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1128-A THROUGH CT1130-A.

RECORD SET

15% DESIGN Submittal

NOT FOR

CONSTRUCTION



AECOM Technical Services, Inc.
2020 L Street, Suite 300 Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 16 LAYOUT SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CTO128-A
SCALE

AS SHOWN

SHEET NO.

OF

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Sulte 300
Sacramento, CA 958II
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 16 LAYOUT SHEET 2 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0129-A
SCALE

CURVE DATA

250.58

500.00' 45 MPH

9°32′57"

3000.00

AS SHOWN

SHEET NO.

OF

AVENUE 24

HST

AVENUE 231/2 DESIGNED BY R. GIBSON RECORD SET DRAWN BY H. PHAN 15% DESIGN SUBMITTAL CHECKED BY
J. ZANDIAN NOT FOR N CHARGE A. BOONE CONSTRUCTION BY CHK APP DESCRIPTION 04/29/2011

NTS

ROAD 193/4

-LOCATION 37

AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 16 LAYOUT SHEET 3 OF 3

_	CONTRACT NO. HST06-007
	DRAWING NO. CTO130-A
	scale AS SHOWN

CURVE DATA

9°32′57" |250.58′ |500.00′ |45 MPH |

NO. R 4 3000.00'

OF



NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1128-A THROUGH CT1130-A.

AVENUE 231/2

| Designed by R. GIBSON | DRAWN BY H. PHAN | CHECKED BY J. ZANDIAN | N CHARCE A. BOONE | A. BOONE | DATE | BY CHK APP | DESCRIPTION | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | D

AVENUE 24

HST

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Sulte 300
Sacramento, CA 958II
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 15 LAYOUT SHEET 1 OF 3

T	CONTRACT NO. HST06-007
	DRAWING NO. CTO131-A
	SCALE

 CURVE DATA

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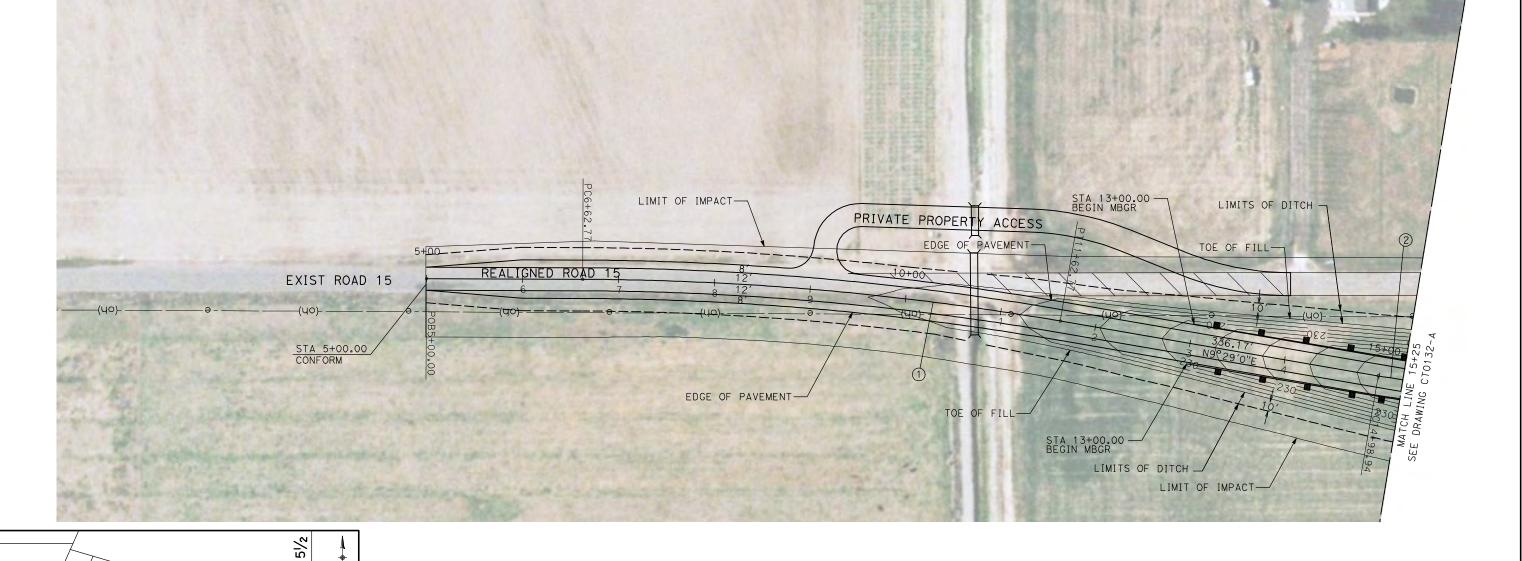
 ①
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH

 ②
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH

AS SHOWN

SHEET NO.

OF



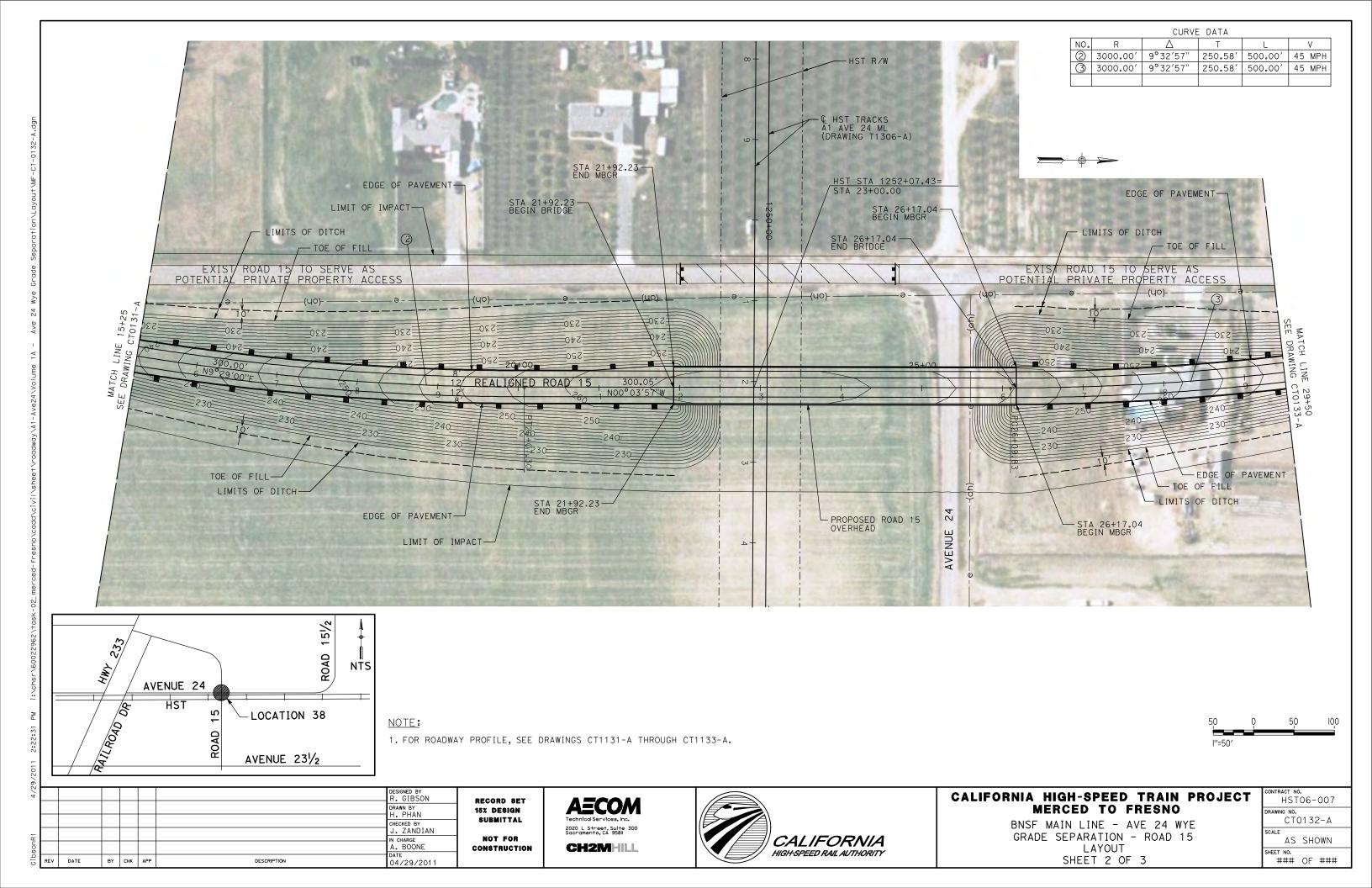
<u>IOTE</u>:

ROAD

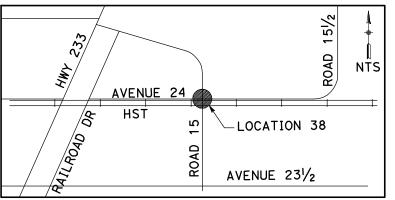
-LOCATION 38

NTS

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1131-A THROUGH CT1133-A.

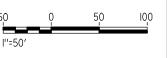






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1131-A THROUGH CT1133-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN
						IN CHARGE
						A. BOONE
ΕV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 15 LAYOUT SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0133-A
SCALF

AS SHOWN
SHEET NO.
OF

| DESIGNED BY | R. GIBSON | DRAWN BY | H. PHAN | CHECKED BY | J. ZANDIAN | IN CHARGE | A. BOONE | DATE | BY | CHK | APP | DESCRIPTION | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE |

AVENUE $24\frac{1}{2}$

LOCATION 39-

AVENUE 24

HST

AVENUE 231/2

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

Technical Services, inc.
2020 L Street, Sulte 300
Sacramento, CA 95811

CH2MHILL





BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 14 LAYOUT SHEET 1 OF 3

T	CONTRACT NO. HST06-007
	DRAWING NO. CTO134-A
	SCALE

 CURVE DATA

 NO.
 R
 ∆
 T
 L
 V

 ①
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH

 ②
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH

AS SHOWN

SHEET NO.
OF

	REMOVE BASE AND SURFACING EDGE OF PAVEMENT STA 15+00.00 LIMITS OF DITCH TOE OF FILL TOE OF FILL TOE OF FILL TOE OF FILL
EXIST ROAD 14 6+00 275.56' REALIGNED ROSO*13'43"E 7 8	
STA 6+00.00 CONFORM	LIMIT OF IMPACT TOE OF FILL LIMITS OF DITCH STA 15+00.00 BEGIN MBGR EDGE OF PAVEMENT EDGE OF PAVEMENT

NOTE:

NTS

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1134-A THROUGH CT1136-A.

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

NOT FOR

CONSTRUCTION

CH2MHILL

IN CHARGE A. BOONE

04/29/2011

BY CHK APP

DESCRIPTION

CURVE DATA

AS SHOWN

OF

LAYOUT

SHEET 2 OF 3

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 14 LAYOUT SHEET 3 OF 3

HST06-007 CT0136-A

CURVE DATA

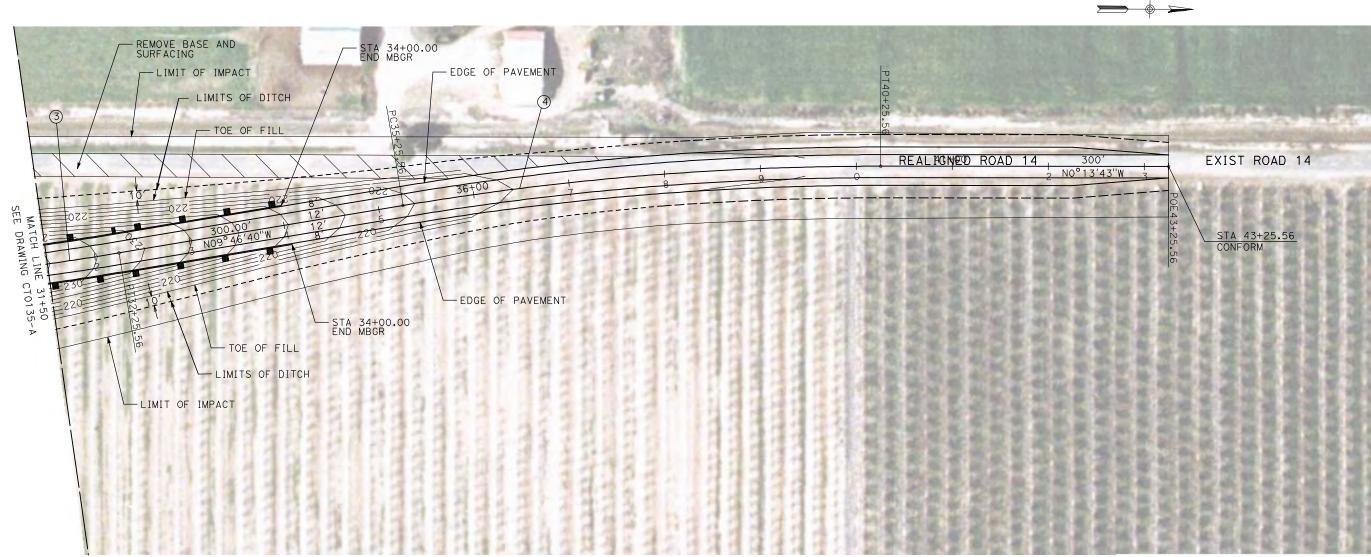
4 3000.00' 9°32'57" 250.58' 500.00' 45 MPH

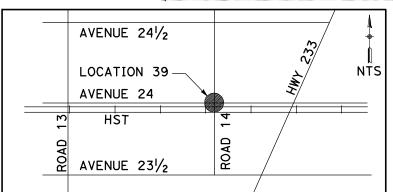
500.00' 45 MPH

NO. R \(\Delta \) T \(\frac{3}{3} \) 3000.00' 9°32'57" 250.58'

AS SHOWN ### OF ###

RECORD SET 15% DESIGN 2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1134-A THROUGH CT1136-A.

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN N CHARGE A. BOONE DATE 04/29/2011 BY CHK APP DESCRIPTION

SUBMITTAL NOT FOR CONSTRUCTION



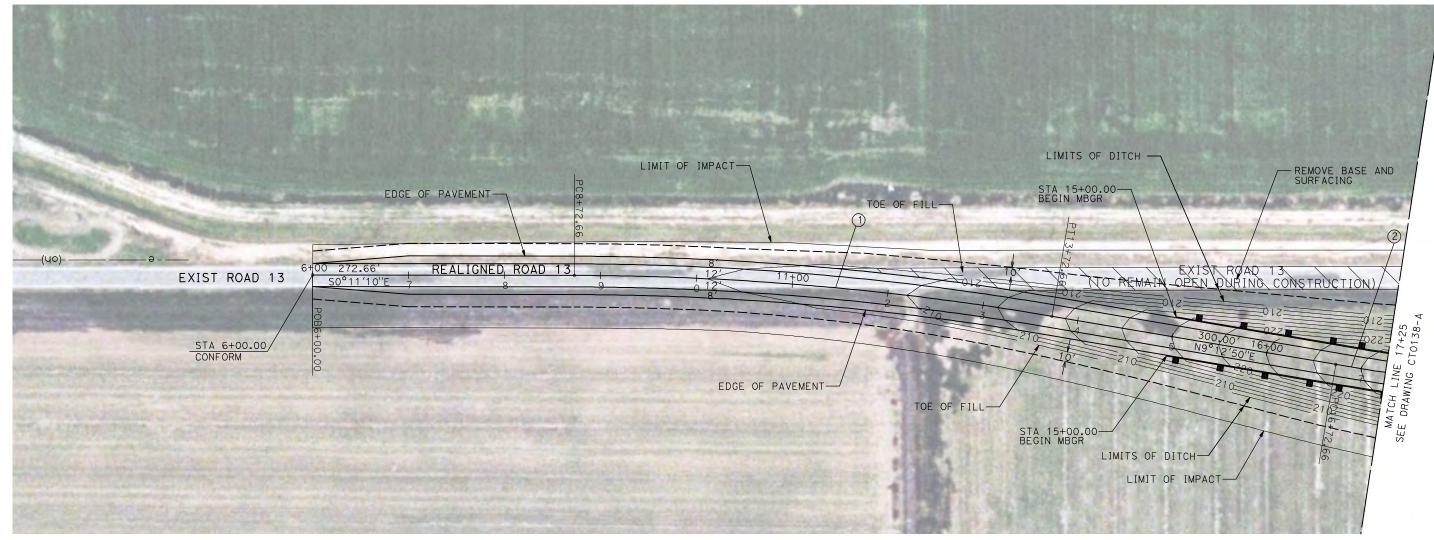
 CURVE DATA

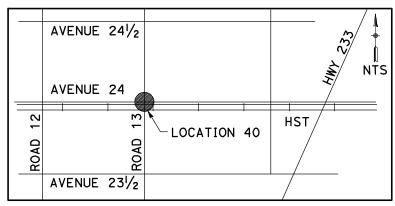
 NO.
 R
 △
 T
 L
 V

 ①
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

 ②
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

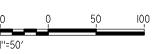






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1137-A THROUGH CT1139-A.



					_	
						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY J. ZANDIAN
						IN CHARGE
						A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 13 LAYOUT SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0137-A
SCALE.

AS SHOWN

SHEET NO.

OF

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN N CHARGE A. BOONE BY CHK APP DESCRIPTION 04/29/2011

15% DES NOT CONSTR



STA 25+58.34 DEGIN MBGR

AVENUE

HST STA 1146+43.79= STA 24+50 02

STA 25+58.34 BEGIN MBGR

- STA 25+58.34 END BRIDGE

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 13 LAYOUT SHEET 2 OF 3

Γ	CONTRACT NO. HST06-007
	DRAWING NO. CTO138-A
	SCALE AS SHOWN

OF

SHEET NO.

RECORD SET 15% DESIGN SUBMITTAL	AECOM Technical Services, inc.	
NOT FOR CONSTRUCTION	2020 L Street, Suite 300 Sacramento, CA 958II	CALIFO HIGH-SPEED RAIL

LECOM nnIcal Services, Inc. D. L. Street, Suite 300 ramento, CA 95811 H2MHILL	CALIFORNIA HIGH-SPEED RAIL AUTHORITY

4/29/2011 2:23:11 PM i:\chsr\60022962\task-02_merced-fresno\cadd\civil\sheet\roadway\A1-Ave24\Volume 1A - Ave 24 Wye Grade 	MATCH LINE 17+25
2\task-02_merce	AVENUE
1 PM :\chsr\6002296	ROAD 12
9/2011 2:23:1	ROA
4/2	

JE 241/2 UE 24 HST -LOCATION 40 AVENUE 231/2

NOTE:

LIMIT OF IMPACT-

- EDGE OF PAVEMENT

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1137-A THROUGH CT1139-A.

STA 23+42.69 — END MBGR

PROPOSED ROAD 13-OVERHEAD

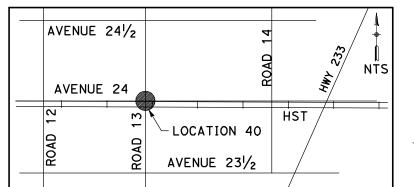
HST R/W-

© HST TRACKS A1 AVE 24 ML (DRAWING T1304-A)

- EDGE OF PAVEMENT

(TO REMAIN OPEN DURING CONSTRUCTION)

STA 23+42.69-BEGIN BRIDGE



LIMITS OF DITCH

TOE OF FILL

- REMOVE BASE AND SURFACING

LIMIT OF IMPACT-

LIMIT OF DITCH

CURVE DATA

9°32′57" 250.58′ 500.00′ 45 MPH

500.00' 45 MPH

9°32′57" | 250.58′

- EDGE OF PAVEMENT

- EDGE OF PAVEMENT

LIMIT OF IMPACT

② 3000.00′

3 3000.00′

LIMITS OF DITCH

- TOE OF FILL

LIMITS OF DITCH

- TOE OF FILL

AVENUE 241/2

AVENUE 24

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE DATE 04/29/2011 BY CHK APP DESCRIPTION

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

RECORD SET

AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 13 LAYOUT SHEET 3 OF 3

Т	contract no. HST06-007
	DRAWING NO. CTO139-A
	SCALE

AS SHOWN SHEET NO. ### OF ###

CURVE DATA NO. R △ T L V
3 3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH 4 3000.00' 9°32'57" 250.58' 500.00' 45 MPH

REMOVE BASE AND SURFACING EDGE OF PAVEMENT LIMITS OF DITCH	STA 35+00.00 LIMIT OF IMPACT END MBGR	PT40+	
TOE OF FILL EXIST ROAD 18 TO REMAIN OPEN DURING CONSTRUCTION) 107 107 107	012 36+00 + 8	41+REALIGNED ROAD 13 300′ 2 N0°11′10′3′W	EXIST ROAD 13
SEE DRAWING CT0138-A SEE DRAWING CT0138-A SEE DRAWING CT0138-A	EDGE OF PAVEMENT STA 35+00.00 END MBGR	LIMIT OF IMPACT	43+77.45
			STA 43+77.45 CONFORM

HST - LOCATION AVENUE 231/2

NOTE:

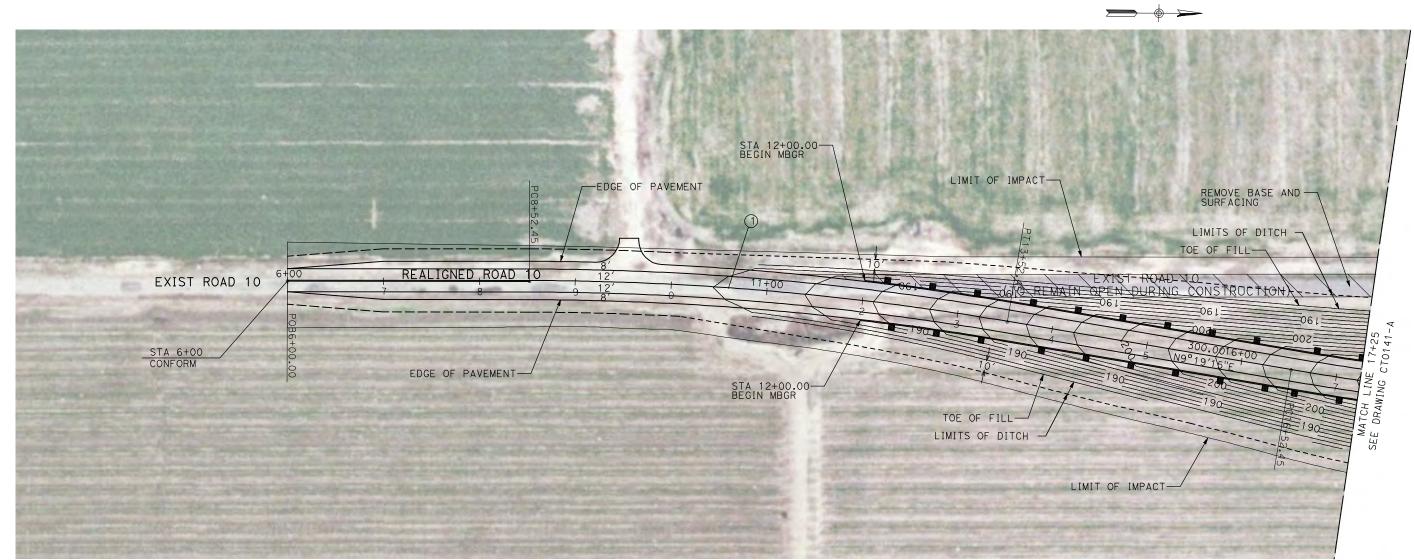
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1137-A THROUGH CT1139-A.

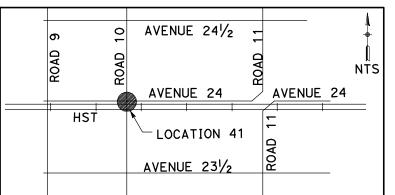
 CURVE DATA

 NO.
 R
 △
 T
 L
 V

 ①
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

 ②
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1140-A THROUGH CT1142-A.



BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 10 LAYOUT SHEET 1 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0140-A
SCALE
V Z ZHUMNI

AS SHOWN

SHEET NO.

OF

-						
						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY J. ZANDIAN
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II
CH2MHILL



RECORD SET

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1140-A THROUGH CT1142-A.

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 10 LAYOUT SHEET 2 OF 3

HST06-007 RAWING NO. CTO141-A

CURVE DATA

250.58

500.00' 45 MPH

250.58' 500.00' 45 MPH

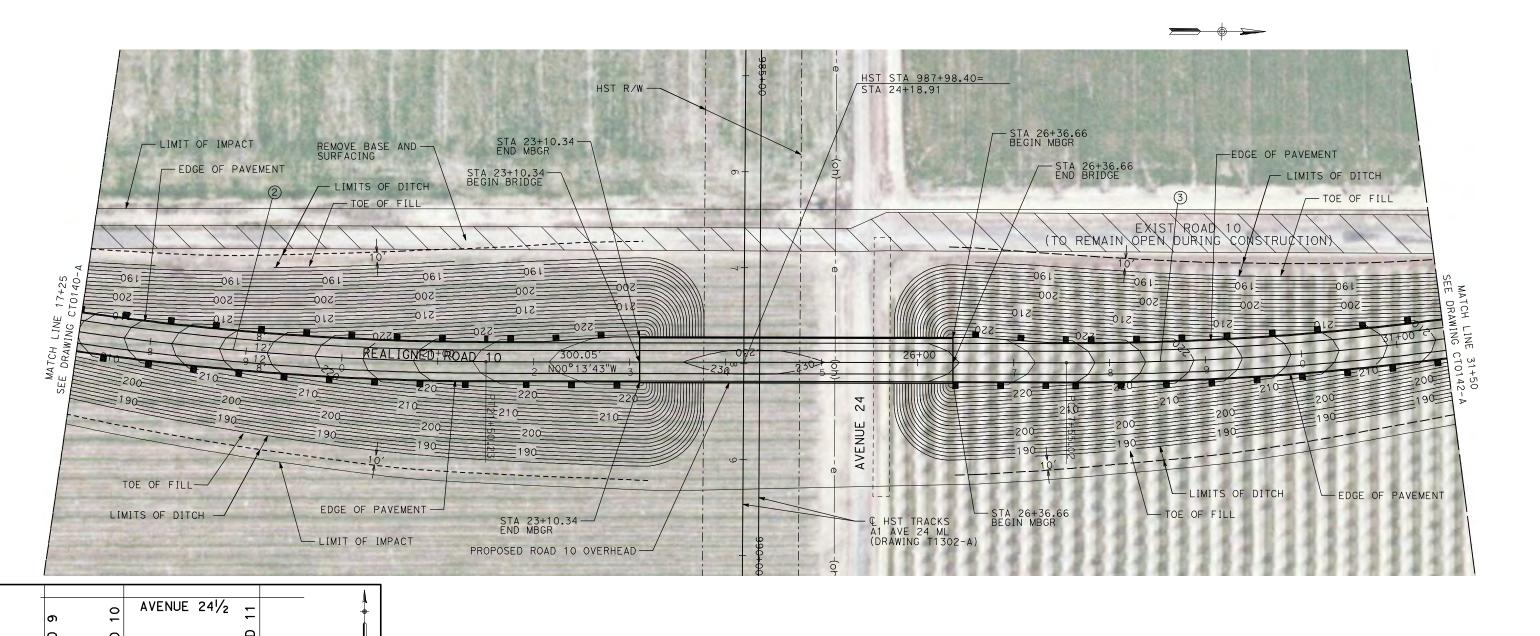
9°32′57"

9°32′57"

② 3000.00′

(3) | 3000.00′

AS SHOWN ### OF ###



AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL

AVENUE 231/2

DESCRIPTION

AVENUE 24

-LOCATION 41

HST

BY CHK APP

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

NTS

NOTE:

DESIGNED BY R. GIBSON

DRAWN BY H. PHAN

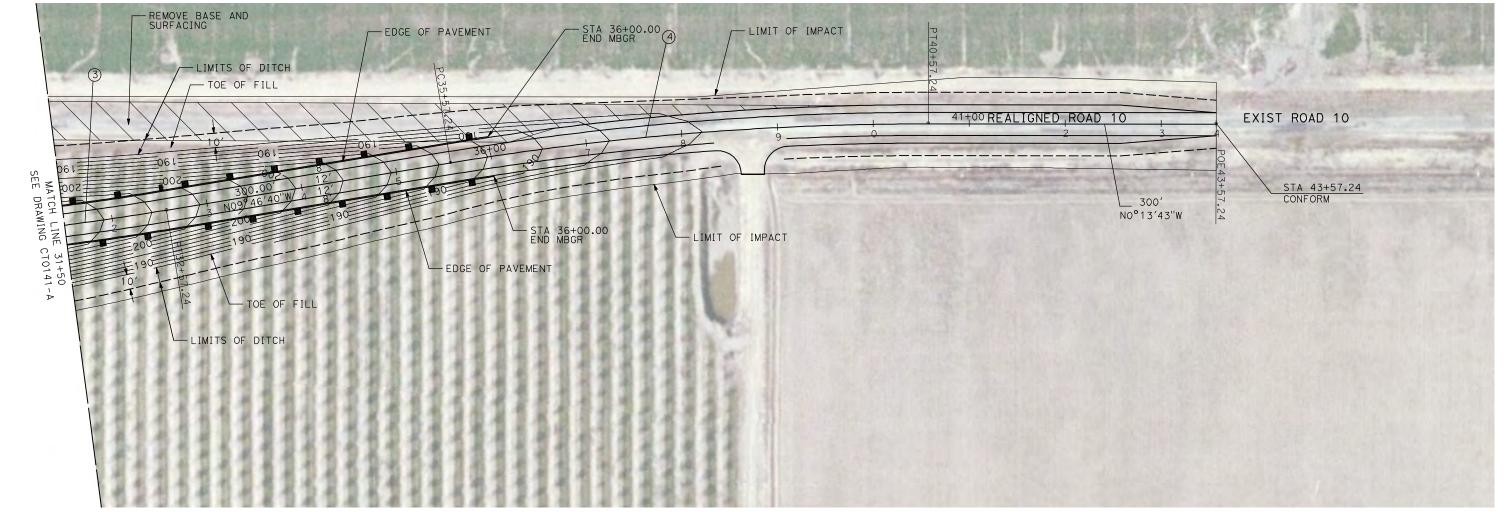
CHECKED BY
J. ZANDIAN

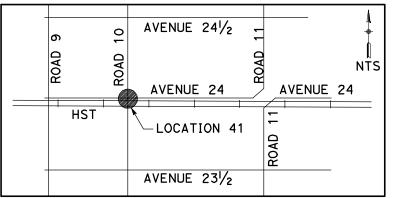
DATE 04/29/2011

N CHARGE A. BOONE

AVENUE 24

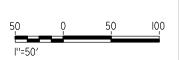






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1140-A THROUGH CT1142-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN
						IN CHARGE A. BOONE
ΕV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 10 LAYOUT SHEET 3 OF 3

CONTRACT NO.
HST06-007
DRAWING NO.
CT0142-A
SCALE
VC CHOMM

AS SHOWN

SHEET NO.

OF

DESIGNED BY R. GIBSON RECORD SET DRAWN BY H. PHAN 15% DESIGN SUBMITTAL CHECKED BY
J. ZANDIAN NOT FOR N CHARGE A. BOONE CONSTRUCTION DATE 04/29/2011 DESCRIPTION

EXIST ROAD 9 6+00 231.32′ REALIGNED ROAD 9



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

LIMITS OF DITCH-

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 9 LAYOUT SHEET 1 OF 3

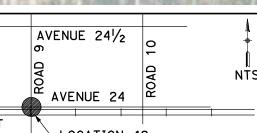
,	CONTRACT NO. HST06-007
	DRAWING NO. CTO143-A
	SCALE

AS SHOWN SHEET NO. ### OF ###

TO REMAIN OPEN DURING CONSTRUCTION

CURVE DATA NO. R Δ T L V

3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH ② 3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH



STA 6+00.00 CONFORM

NOTE: 1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1143-A THROUGH CT1145-A.

LIMIT OF IMPACT-

NTS HST LOCATION 42 AVENUE 231/2

AECOM



TOE OF FILL-

BY CHK APP

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

AVENUE 231/2 DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE DATE 04/29/2011 BY CHK APP DESCRIPTION

AVENUE 24

LOCATION 42

HST

EDGE OF PAVEMENT-

NÎS

15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

RECORD SET

-LIMITS OF DITCH

AECOM 2020 L Street, Suite 300 Sacramento, CA 9581 **CH2M**HILL

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1143-A THROUGH CT1145-A.



HST R/W

CALIFORNIA HIGH-SPEED TRAIN PROJECT

-EDGE OF PAVEMENT

- TOE OF FILL

В١ SHEET 2 OF 3

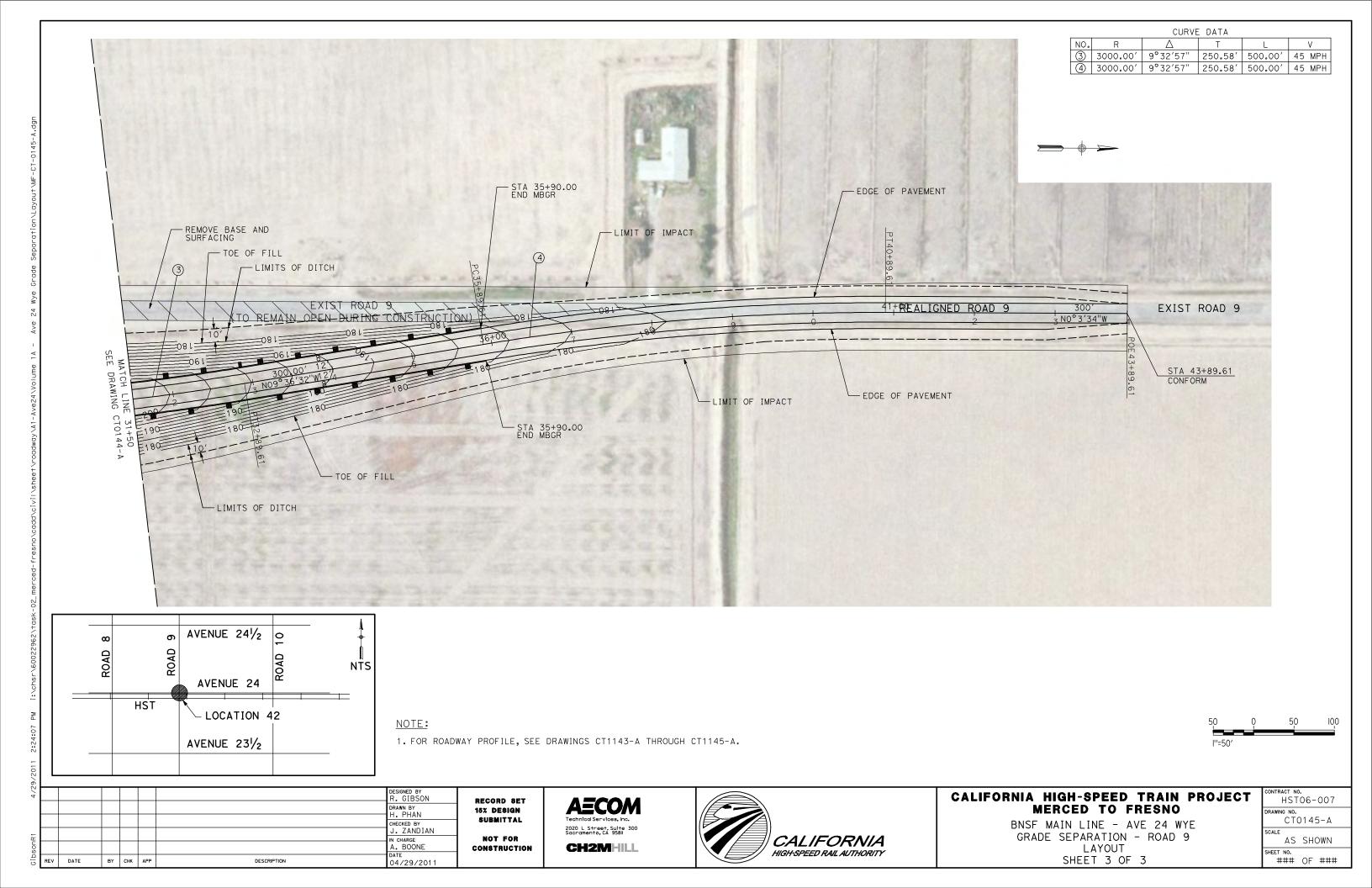
Γ	CONTRACT NO. HST06-007
	DRAWING NO. CTO144-A
	SCALE

CURVE DATA NO. R △ T L V
② 3000.00′ 9°32′57" 250.58′ 500.00′ 45 MPH 3 3000.00' 9°32'57" 250.58' 500.00' 45 MPH

> AS SHOWN SHEET NO. ### OF ###

MERCED IO FRESNO
NSF MAIN LINE - AVE 24 WYE
GRADE SEPARATION - ROAD 9
LAYOUT
CUEET 0 0E 7

TOE OF FILL	(DRAWING TISUTEA)	LIMITS OF DITCH
	(TO REMAIN OPEN DURING CONSTRUCTION)	
25 4 06 1 06 1 06 1 06 1 06 1 06 1 06 1 06	STA 26+41.29 BEGIN MBGR 081 061	081 081 SH S
200 500 500 500 500 500 500 500 500 500	200 = 200 = 250 =	061 06 06 1 DRAWING BANKING STATES
REAL GNED ROAD 9, 300.05' 12' REAL GNED ROAD 9, 300.05' 210 210 210 210	220 7 8	200 200 4550
180 190 200 200 200 200 190 200 190 190 190 190 190 190 190 190 190 1	210 200 200 200 190 190 190 190 190 190 190 190 190 1	190 180
TOE OF FILL	0 180 180	EDGE OF PAVEMENT
LIMITS OF DITCH— STA 23+41.19 STA 23+41.19 STA 23+41.19	STA 26+41.29 END BRIDGE	TOE OF FILL LIMITS OF DITCH
EDGE OF PAVEMENT— LIMIT OF IMPACT— STA 23+41.19— END MBGR HST STA 937+07.77= STA 24+51.56	STA 26+41.29 BEGIN MBGR OF THE STA 26+41.29 BEGIN MBGR	
	PROPOSED ROAD 9 OVERHEAD	
ω σ AVENUE 241/2 O		



CURVE DATA ① 5000.00' 6°52'32" 300.36' 600.00' 45 MPH € HST TRACKS A1-24ML (DRAWING T1125-A) -STA 10+00.00 BEGIN MBGR UPRR R/W LIMIT OF IMPACT-HST R/W-STA 17+95.91 BEGIN MBGR EXIST ROAD 33 LIMITS OF DITCH-STA 15+39.79 -END MBGR LIMITS OF DITCH-TOE OF FILL -STA 15+59.00 -BEGIN BRIDGE LIMIT OF IMPACT--STA 10+00.00 BEGIN MBGR TOE OF FILL— TOE OF FILL STA 18+15.00 END BRIDGE EDGE OF PAVEMENT LIMITS OF DITCH-STA 15+74.39 -END MBGR LIMIT OF IMPACT-STA 18+30.39 BEGIN MBGR LIMIT OF IMPACT-AVE 8 PROPOSED AVENUE 7 OVERHEAD EXIST AVENUE 7 8 31 UPRR-1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1146-A THROUGH CT1148-A. AVE 7 LOCATION 65 DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HST06-007 RECORD SET DRAWN BY H. PHAN MERCED TO FRESNO 15% DESIGN AWING NO. SUBMITTAL BNSF MAINLINE - AVE 24 WYE GRADE SEPARATION - AVENUE 7 CT0146-A CHECKED BY A. SILVER 2020 L Street, Suite 300 Sacramento, CA 95811

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

AS SHOWN

OF ###

LAYOUT

SHEET 1 OF 3

NOT FOR

CONSTRUCTION

CH2MHILL

IN CHARGE A. BOONE

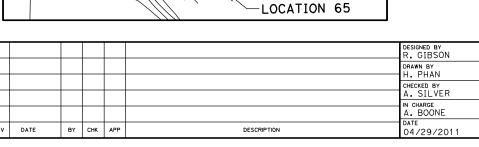
04/29/2011

BY CHK APP

DESCRIPTION

31

UPRR-



AVE 7

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 358II
CH2MHILL

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1146-A THROUGH CT1148-A.



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

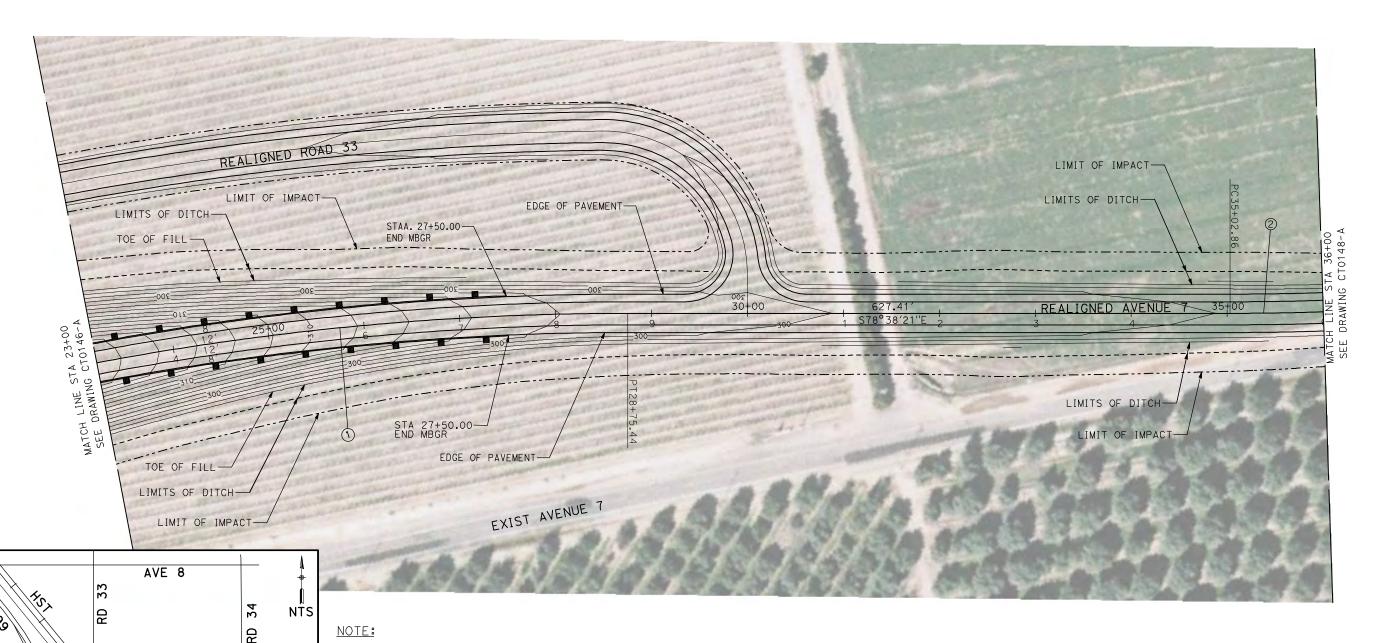
CURVE DATA

① 5000.00′ 6°52′32" 300.36′ 600.00′ 45 MPH ② 3000.00′ 12°10′29" 319.93′ 637.46′ 45 MPH

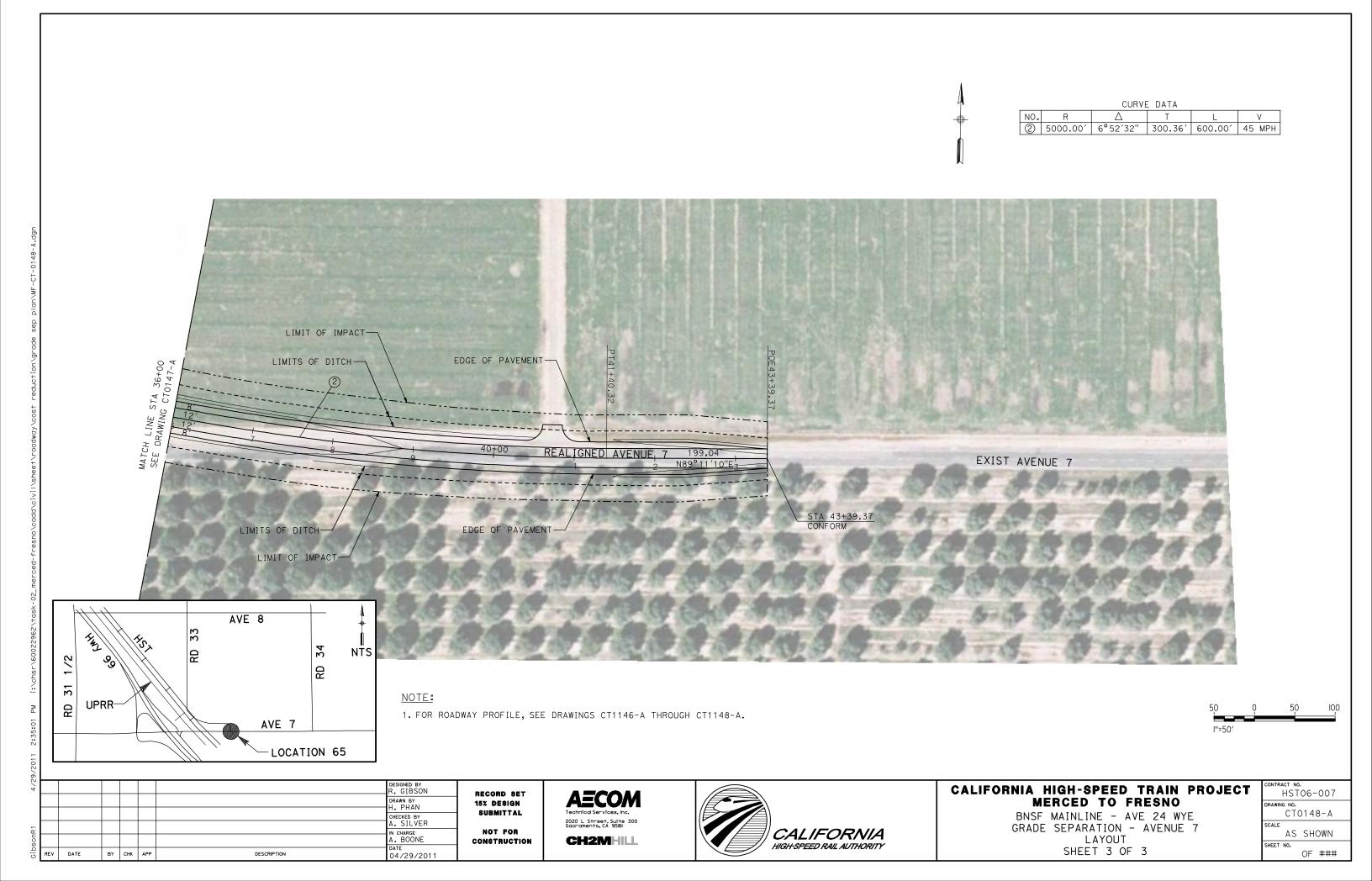
> BNSF MAINLINE - AVE 24 WYE GRADE SEPARATION - AVENUE 7 LAYOUT SHEET 2 OF 3

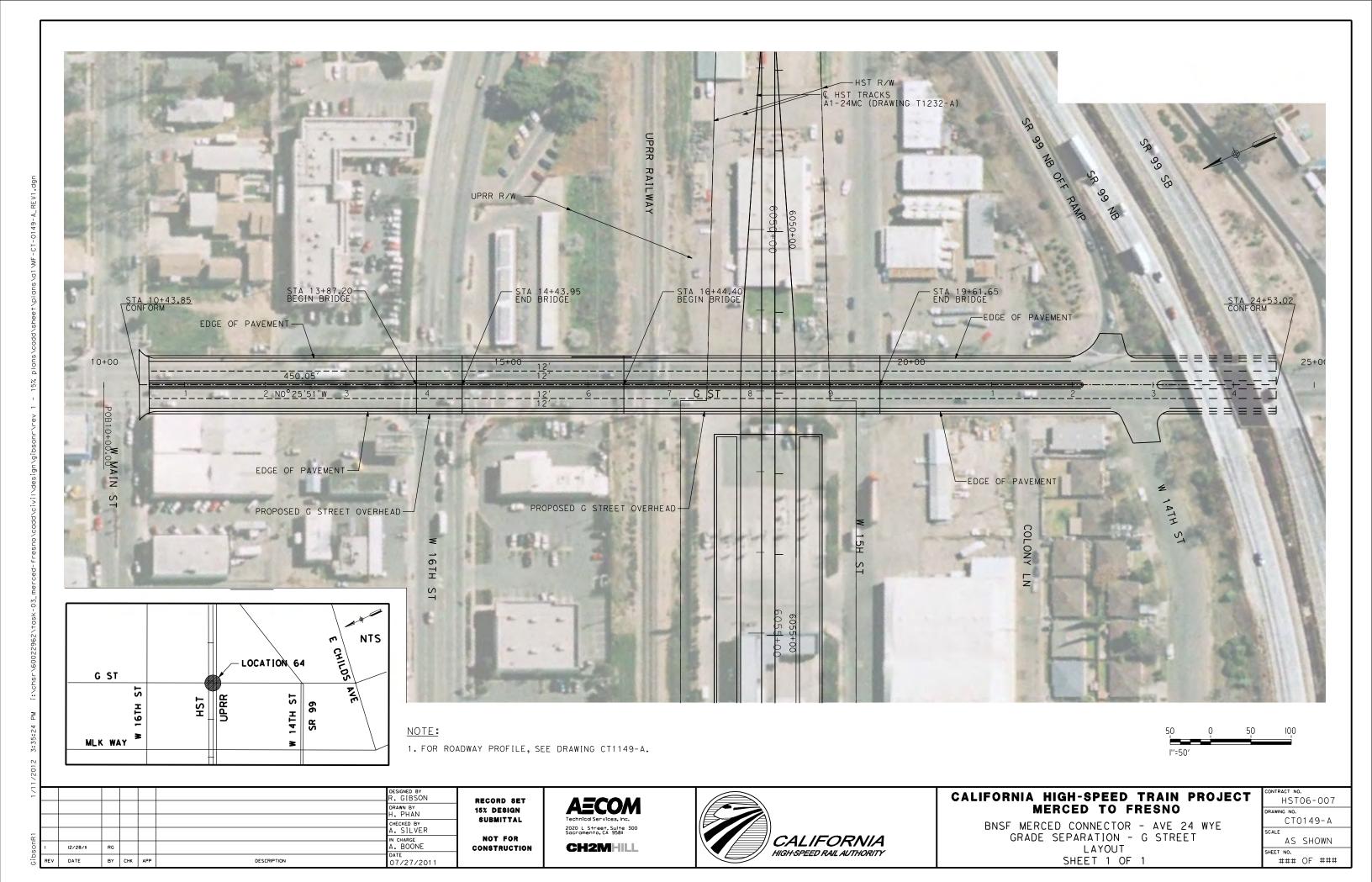
Γ	CONTRACT NO. HST06-007
	DRAWING NO. CTO147-A
	SCALE AS SHOWN
	SHEET NO.

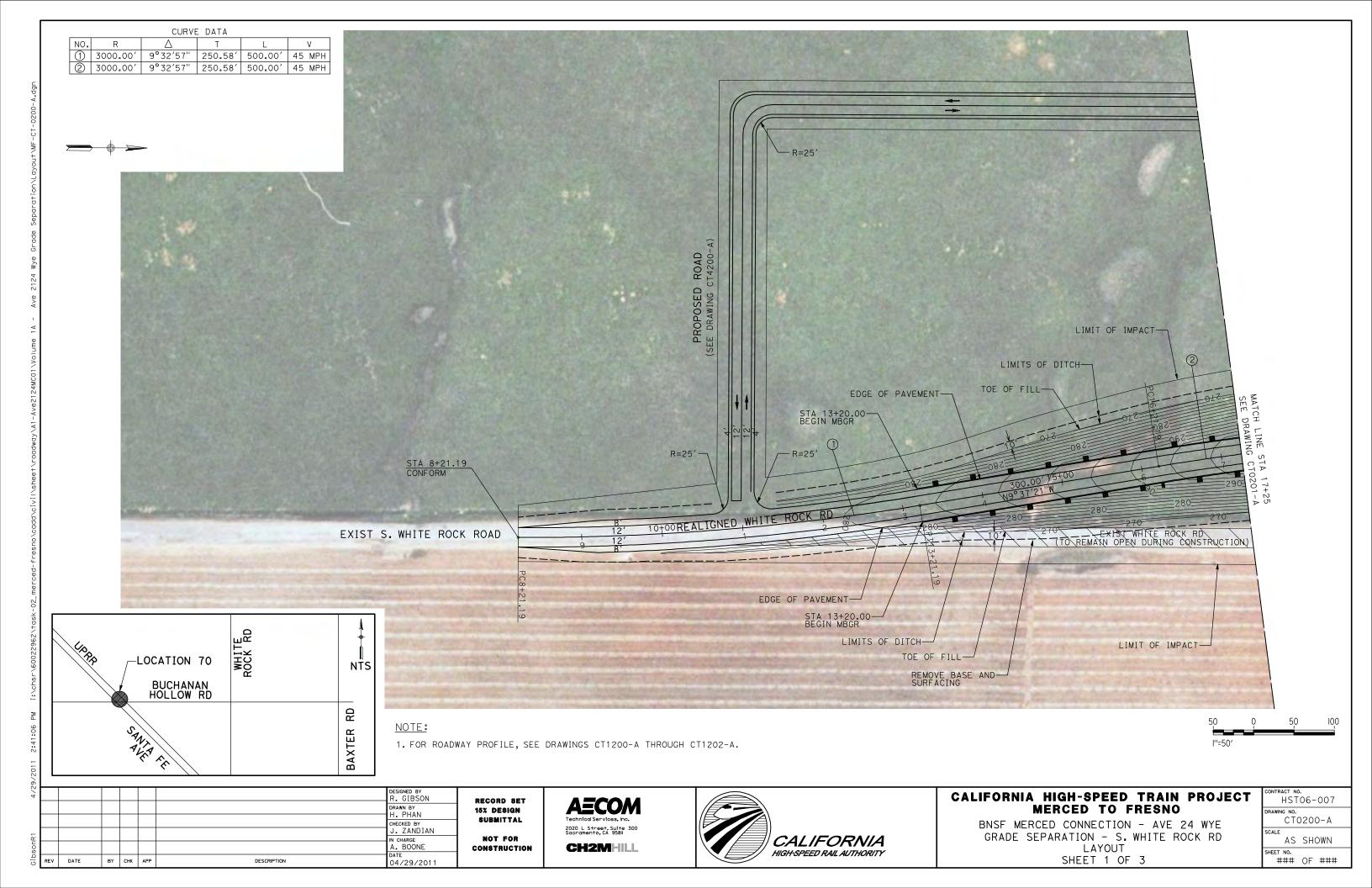
OF ###

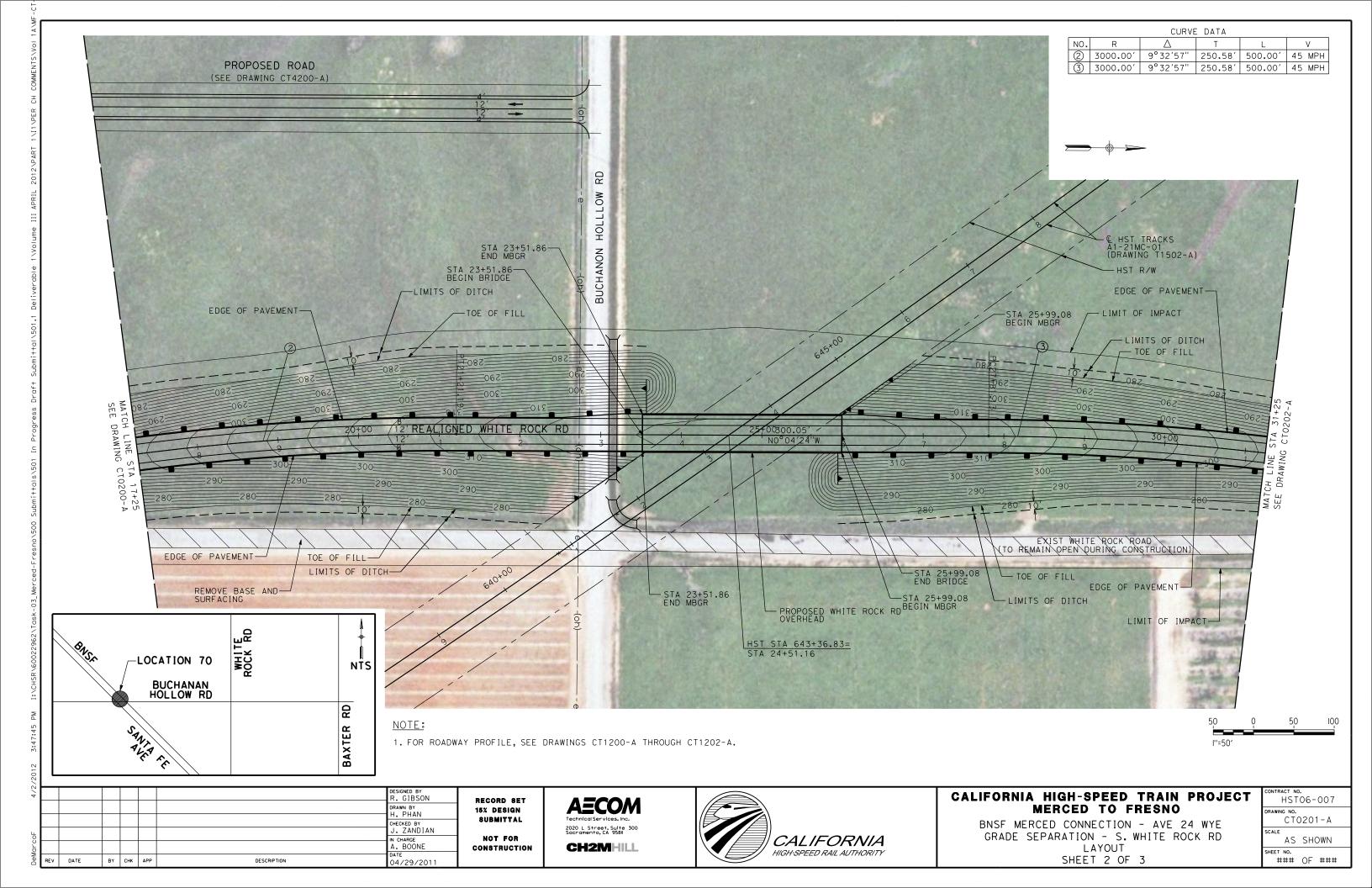


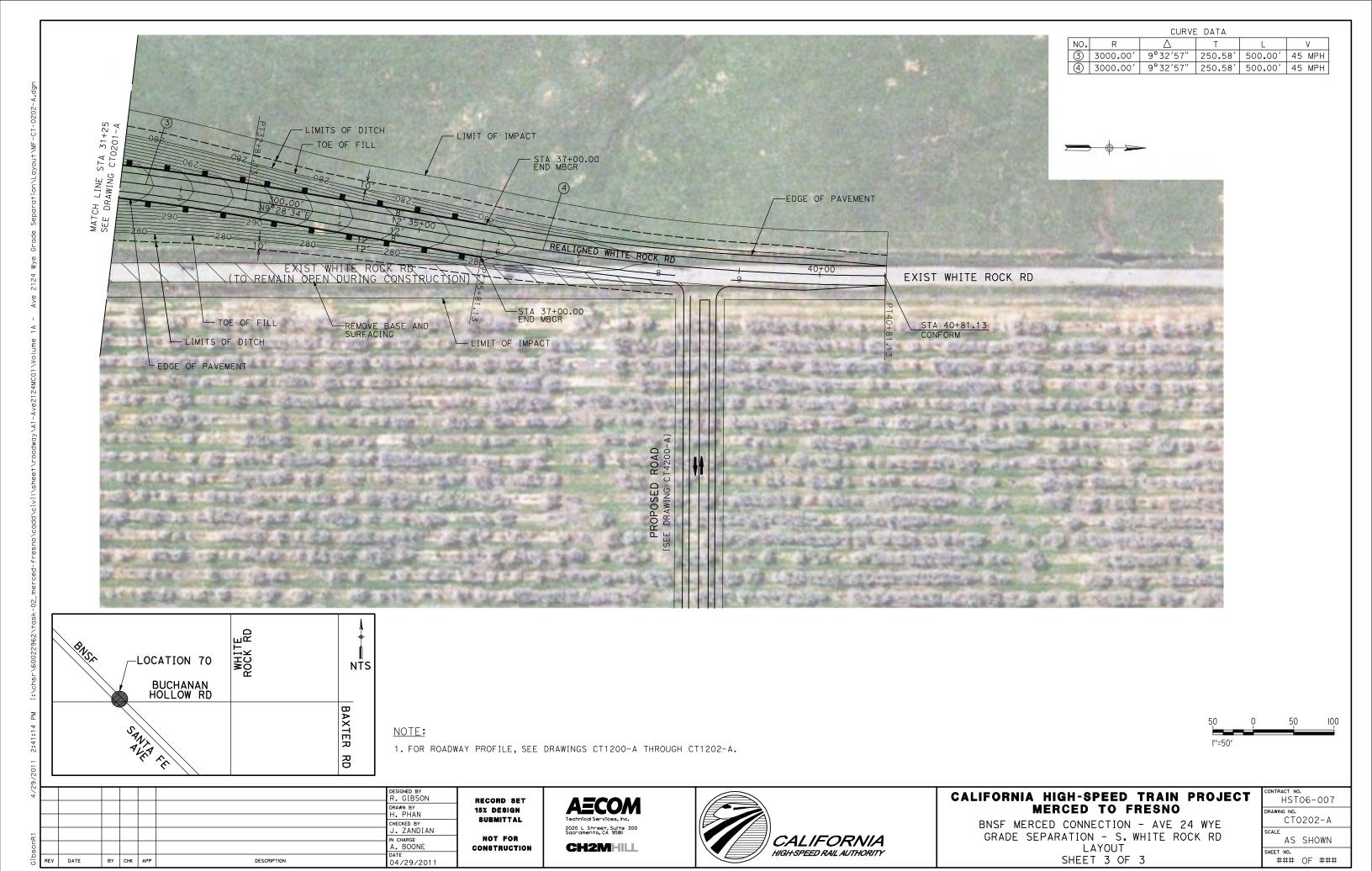
50 0 50 100 I"=50′

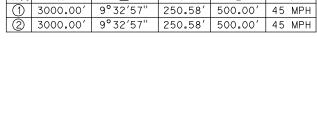




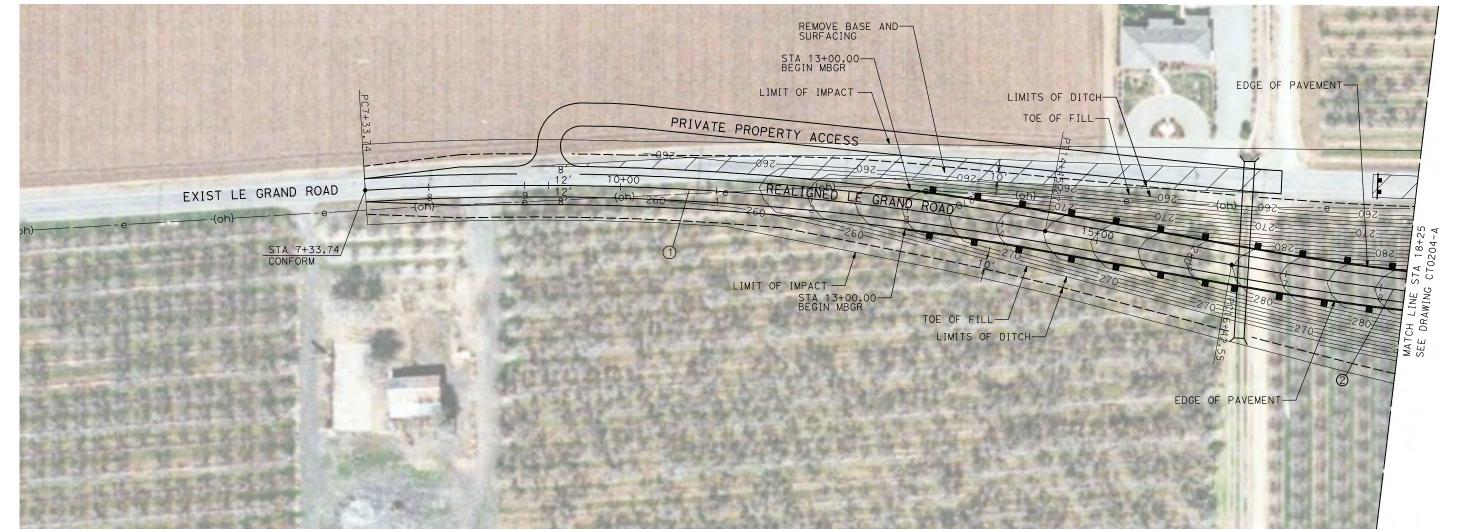


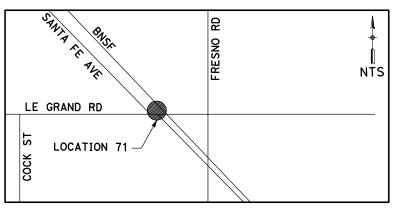






CURVE DATA





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1203-A THROUGH CT1205-A.

CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO RNSE MERCED CONNECTION - AVE 24 WYE

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - LE GRAND RD LAYOUT SHEET 1 OF 3

T	CONTRACT NO. HST06-007
	DRAWING NO. CTO203-A
	SCALE AS SHOWN

AS SHOWN

SHEET NO.

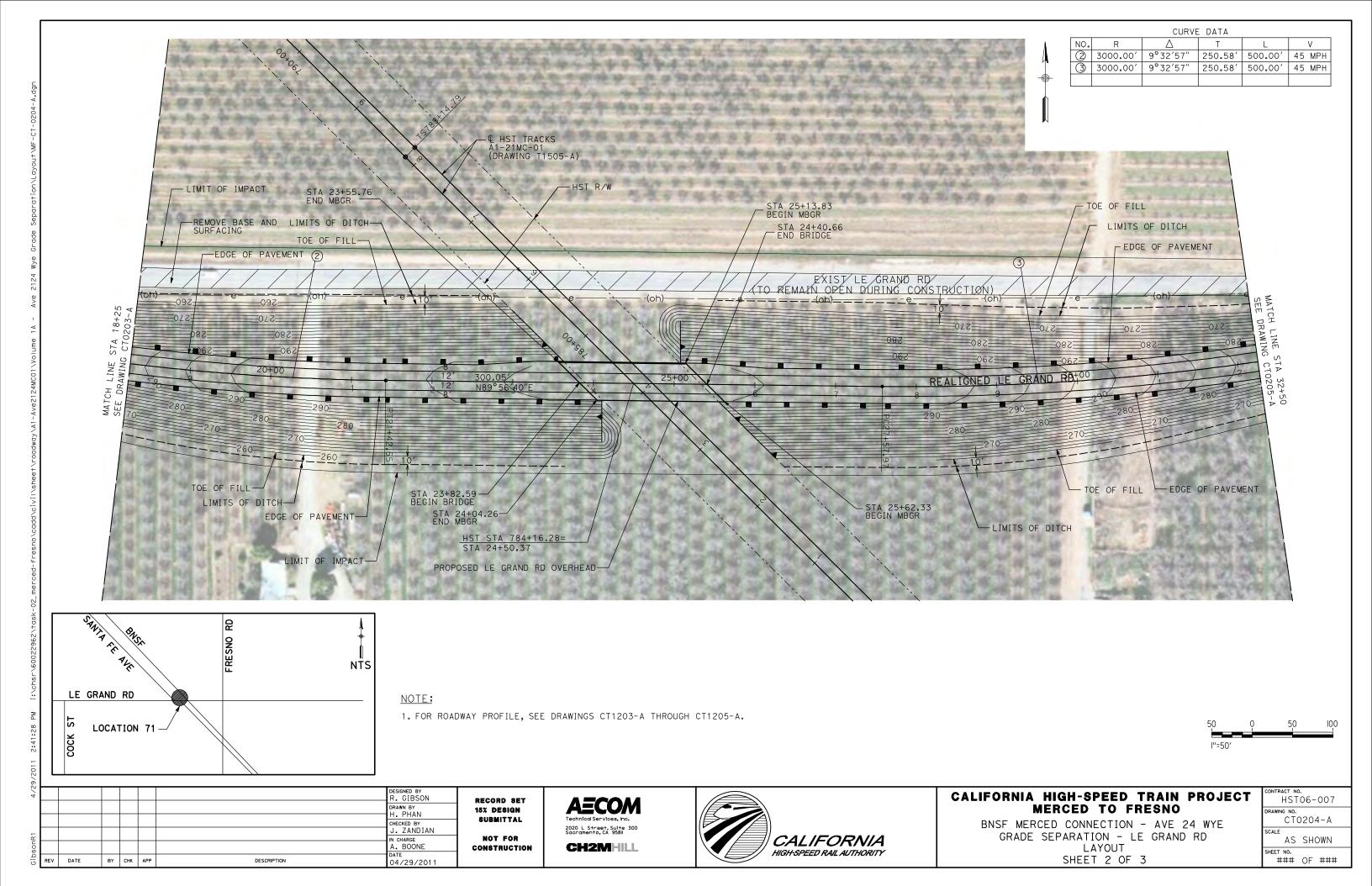
OF

						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN IN CHARGE
						A. BOONE
REV	DATE	BY	снк	APP	DESCRIPTION	04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

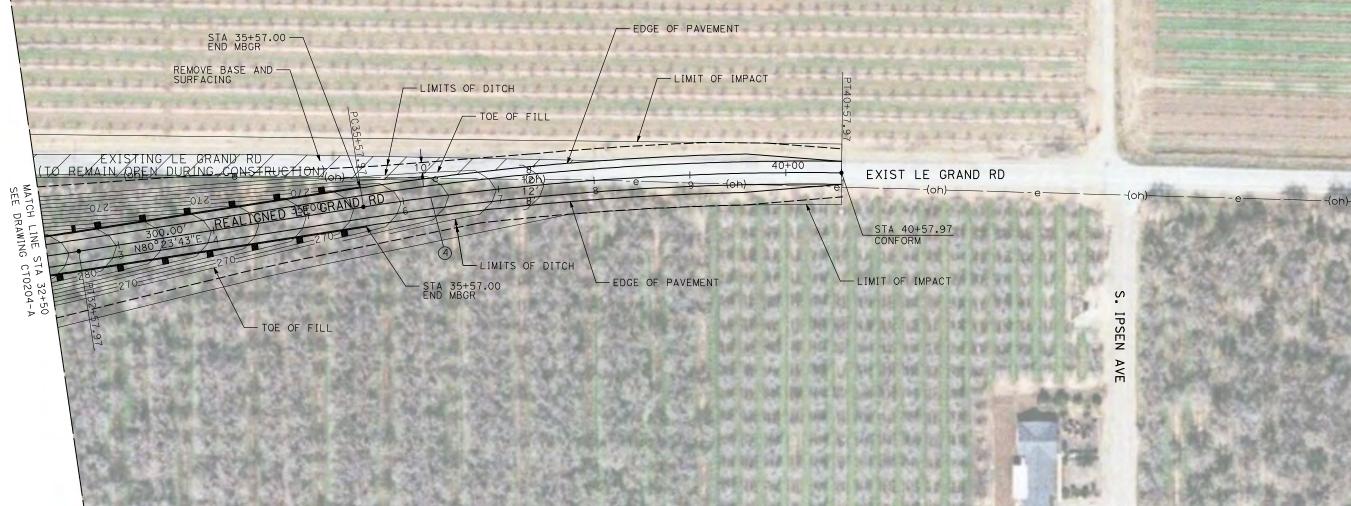


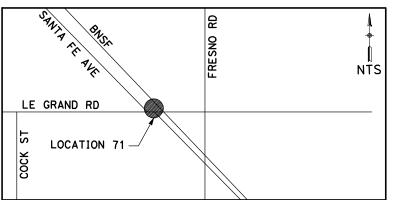


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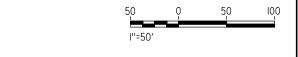
 ②
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1203-A THROUGH CT1205-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN
						N CHARGE A. BOONE
E۷	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - LE GRAND RD LAYOUT SHEET 3 OF 3

_	CONTRA	ACT NO	
ı		HST	06-007
	DRAWIN	G NO.	
		CTC)205-A
	SCALE		
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OF

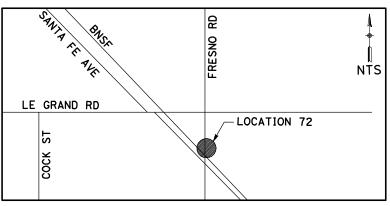
 CURVE DATA

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 ①
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH







NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1206-A THROUGH CT1208-A.



BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. FRESNO RD LAYOUT SHEET 1 OF 3

•	CONTRACT NO. HST06-007
	DRAWING NO. CTO206-A
	AS SHOWN
	SHEET NO. ### OF ###

						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN
						IN CHARGE A. BOONE
v	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

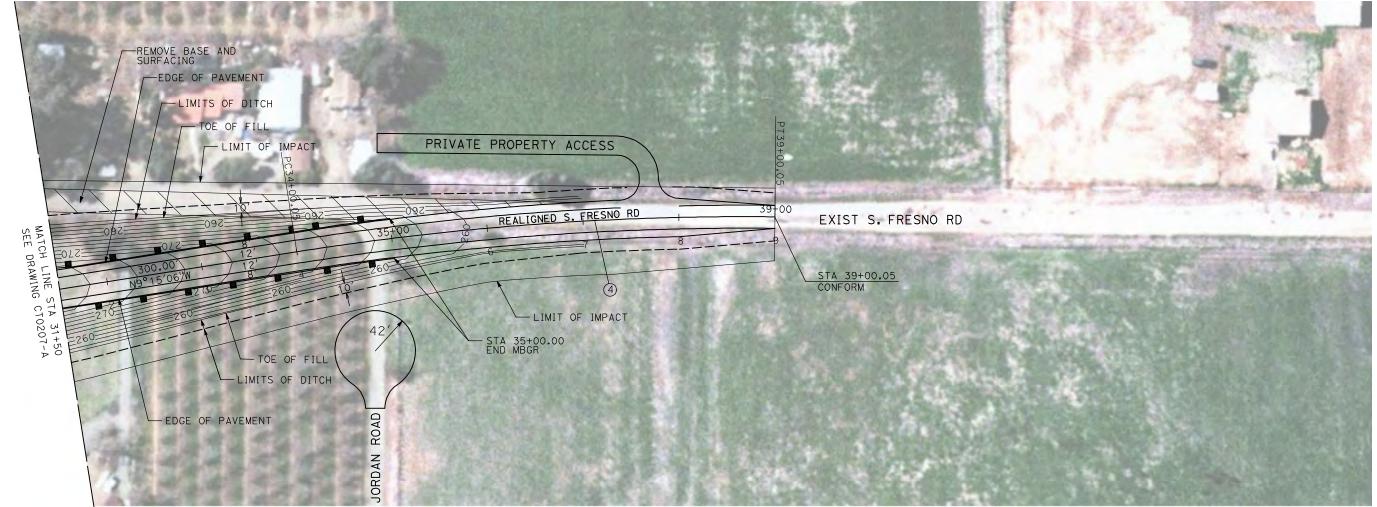
RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

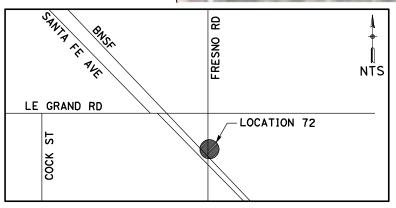




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\odot	3000.00′	9°32′57"	250.58′	500.00′	45 MPH			







1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1206-A THROUGH CT1208-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY J. ZANDIAN
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION





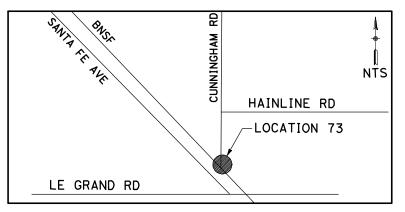
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. FRESNO RD LAYOUT SHEET 3 OF 3

_	CONTRA		06-007
	DRAWIN)208-A
	SCALE	AS	SHOWN

SHEET NO. ### OF ###





DESCRIPTION

BY CHK APP

NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1209-A THROUGH CT1211-A.

RECORD SET

15% DESIGN SUBMITTAL

NOT FOR

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN N CHARGE A. BOONE CONSTRUCTION

04/29/2011

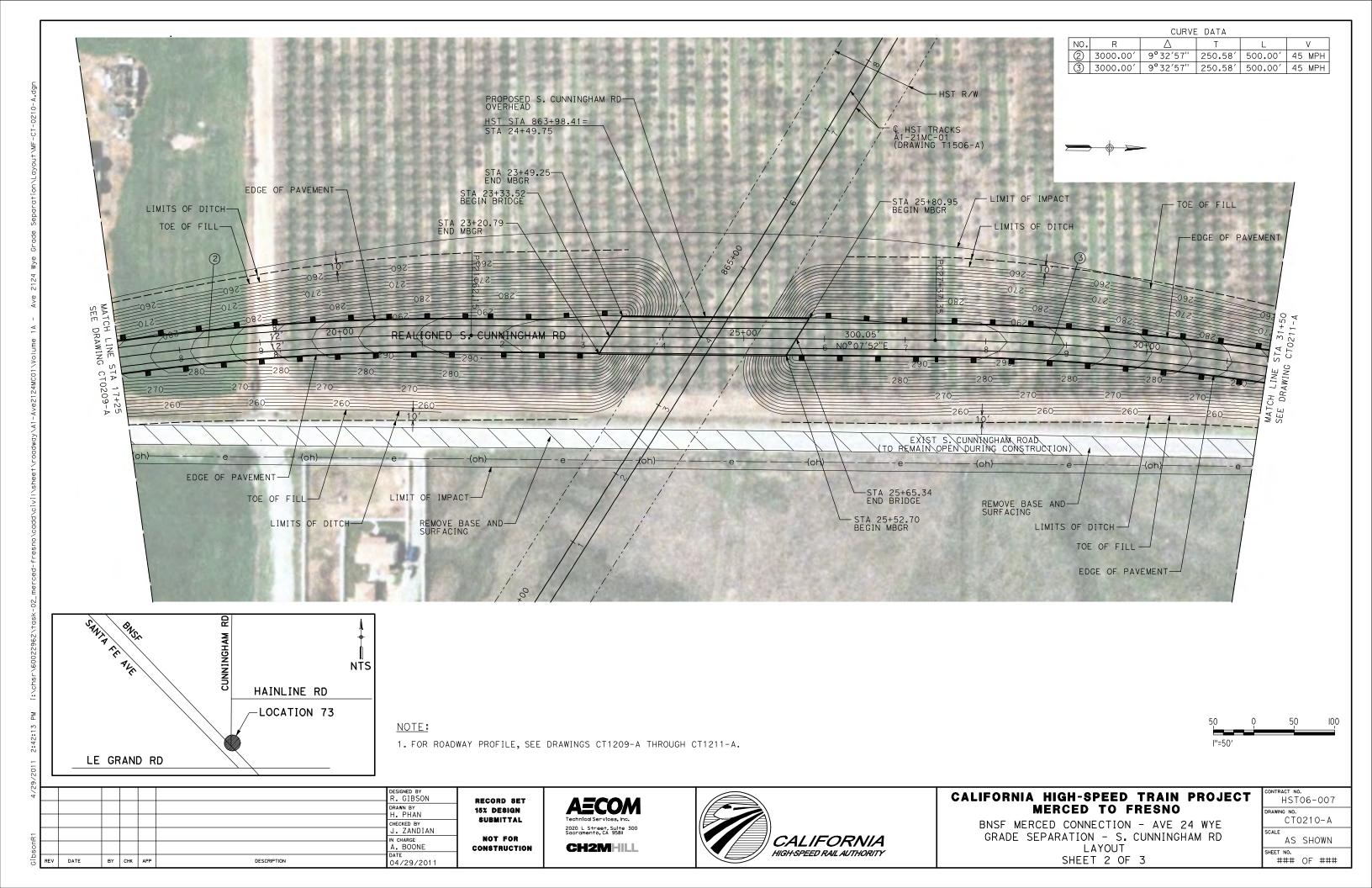
2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. CUNNINGHAM RD LAYOUT SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CTO209-A
scale AS SHOWN
SHEET NO. ### OF ###



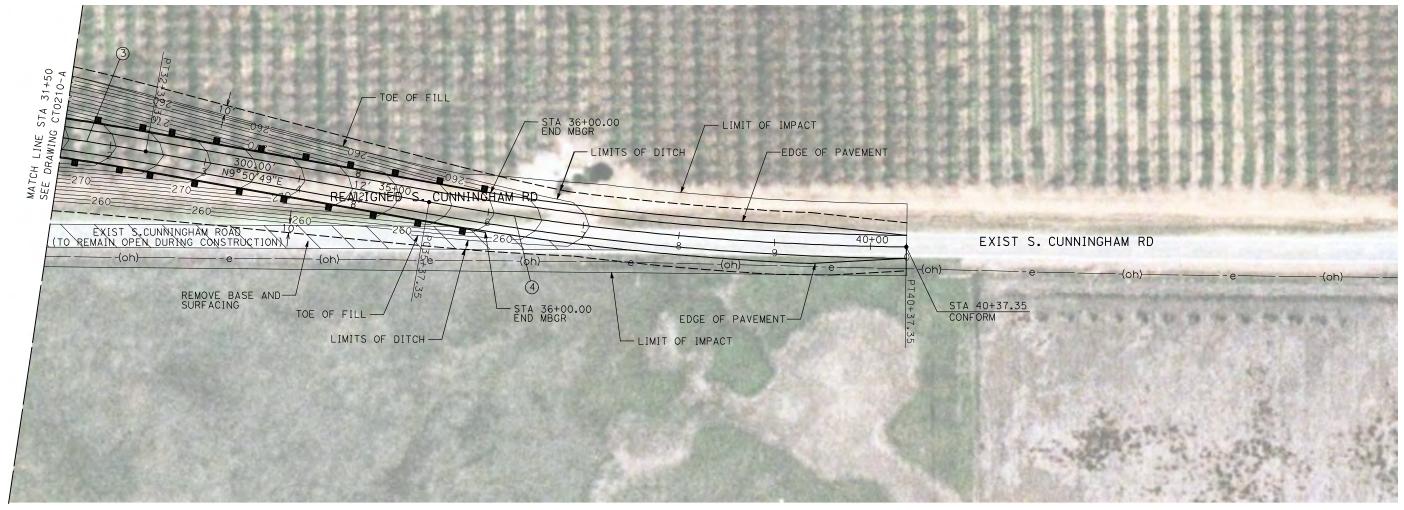
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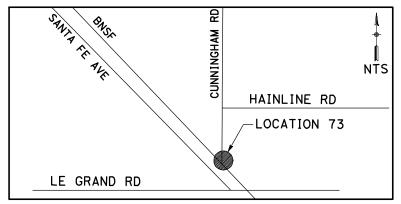
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 ③
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

 ④
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

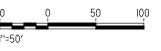






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1209-A THROUGH CT1211-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. CUNNINGHAM RD LAYOUT
SHEET 3 OF 3

Γ	CONTRACT NO. HST06-007
	DRAWING NO. CTO211-A
	SCALE AS SHOWN
	SHEET NO. ### OF ###

BY CHK APP

DESCRIPTION

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CHECKED BY
J. ZANDIAN

04/29/2011

IN CHARGE A. BOONE

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

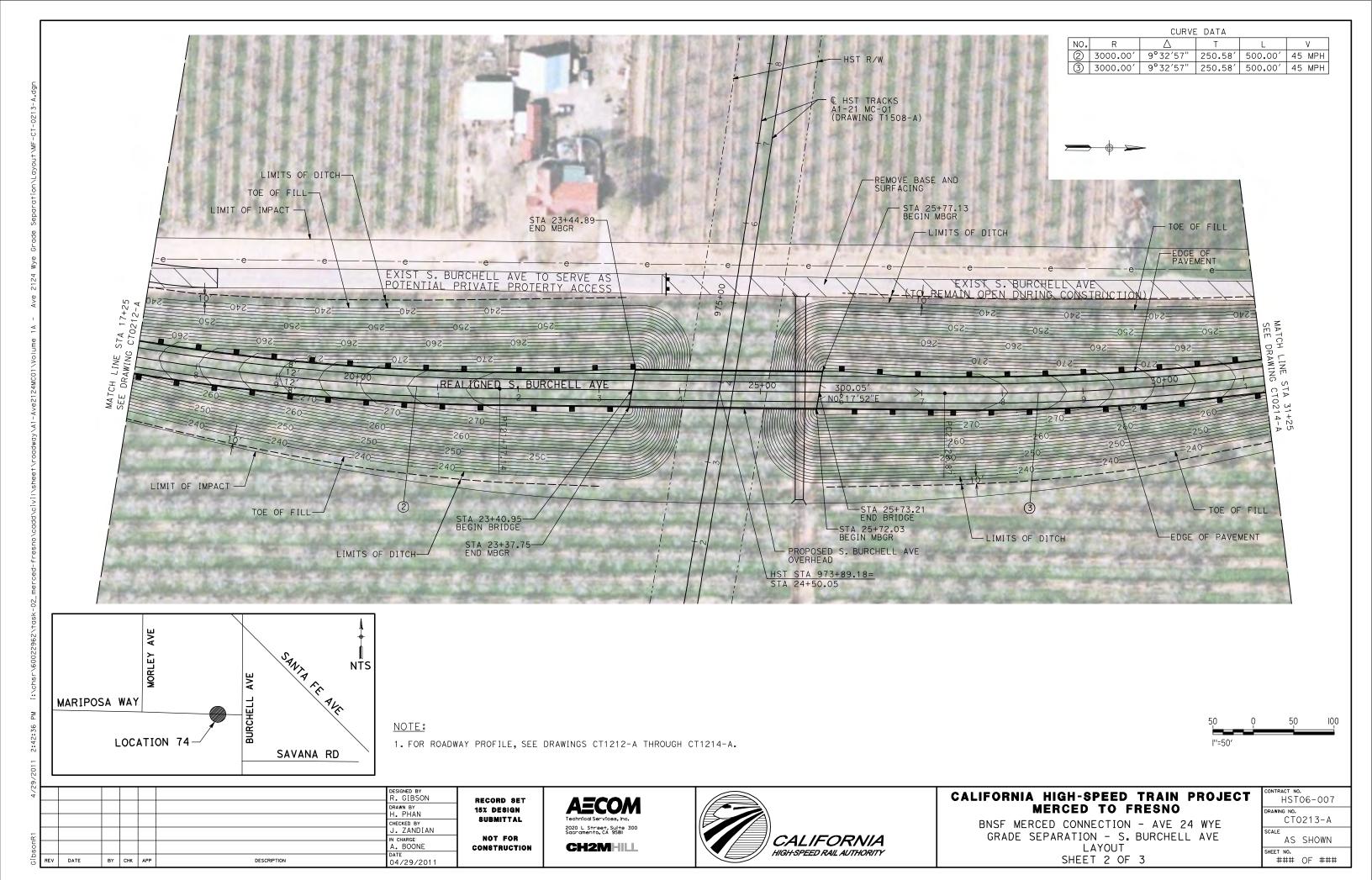


MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. BURCHELL AVE LAYOUT SHEET 1 OF 3

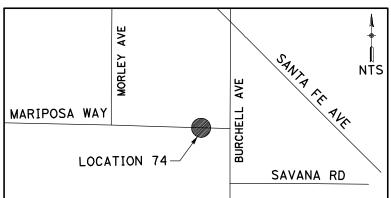
HST06-007
DRAWING NO. CTO212-A
SCALE

AS SHOWN SHEET NO. ### OF ###



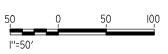






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1212-A THROUGH CT1214-A.



						DESIGNED BY
_						R. GIBSON
						DRAWN BY
						H. PHAN
						CHECKED BY
ı						J. ZANDIAN
						IN CHARGE
						A. BOONE
—			_			DATE
REV	DATE	BY	CHK	APP	DESCRIPTION	04/29/2011

RECORD SET
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NOT FOR
CONSTRUCTION

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Sacramento, CA 958II
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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. BURCHELL AVE LAYOUT
SHEET 3 OF 3

Γ	CONTRACT NO. HST06-007
	DRAWING NO. CTO214-A
	AS SHOWN
	SHEET NO. ### OF ###

LE GRAND RD

LOCATION 75-

| DESIGNED BY | R. GIBSON | DRAWN BY | H. PHAN | CHECKED BY | J. ZANDIAN | IN CHARGE | A. BOONE | DATE | BY CHK | APP | DESCRIPTION | DATE | O4/29/2011

RECORD SET
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SUBMITTAL
NOT FOR
CONSTRUCTION

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Sacramento, CA 958II
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BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - LE GRAND RD LAYOUT SHEET 1 OF 3

T	HST06-007
	DRAWING NO. CTO250-A
	SCALE

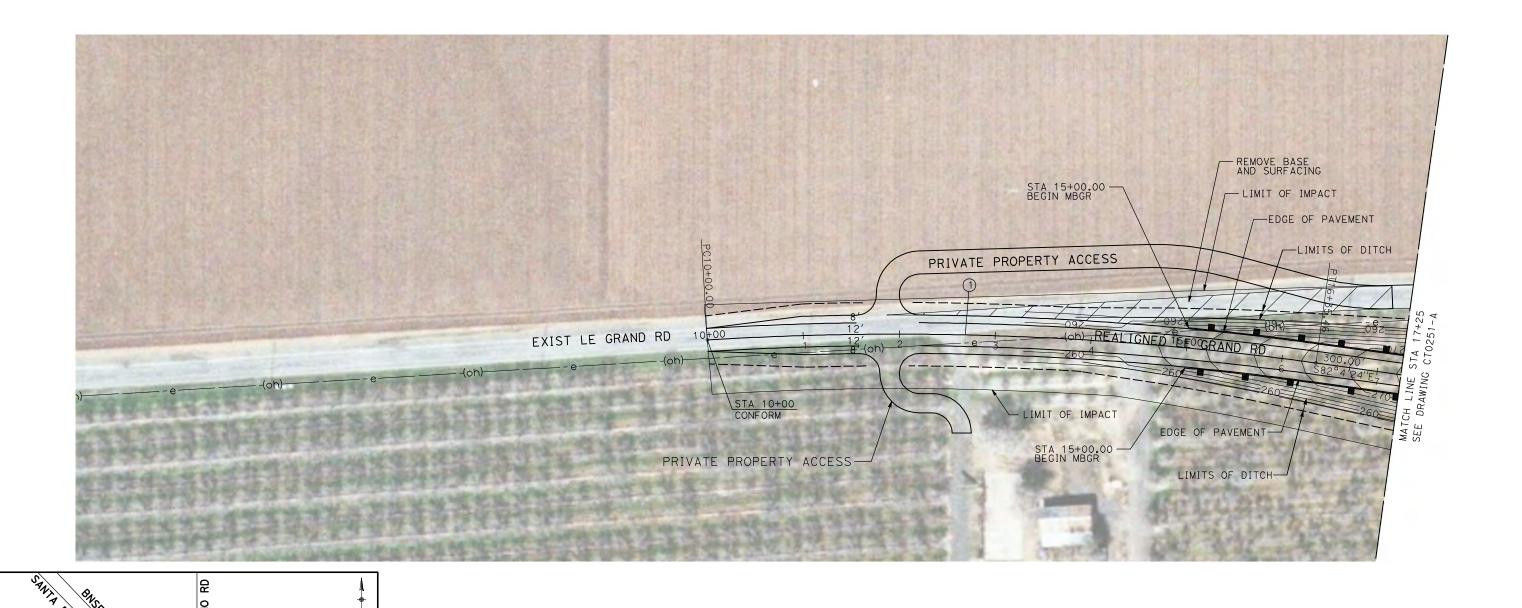
CURVE DATA

① 3200.00′ 11°22′41" 318.78′ 635.46′ 45 MPH

AS SHOWN

SHEET NO.

OF



NOTE

NTS

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1250-A THROUGH CT1252-A.

LE GRAND RD

LOCATION 75 -

DESIGNED BY R. GIBSON
DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE
DATE
BY CHK APP
DESCRIPTION
DESCRIPTION
DESCRIPTION
DESCRIPTION
DESCRIPTION
O4/29/2011

NTS

NOTE:

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RECORD SET

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2020 L Street, Sulte 300
Sacramento, CA 958II
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1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1250-A THROUGH CT1252-A.





BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - LE GRAND RD LAYOUT SHEET 2 OF 3

CONTINUE INC.	
HST06-007	
DRAWING NO. CTO251-A	
SCALE	
AS SHOWN	

CURVE DATA

250.58

7°09′43" 250.33′ 500.00′ 45 MPH

500.00' 45 MPH

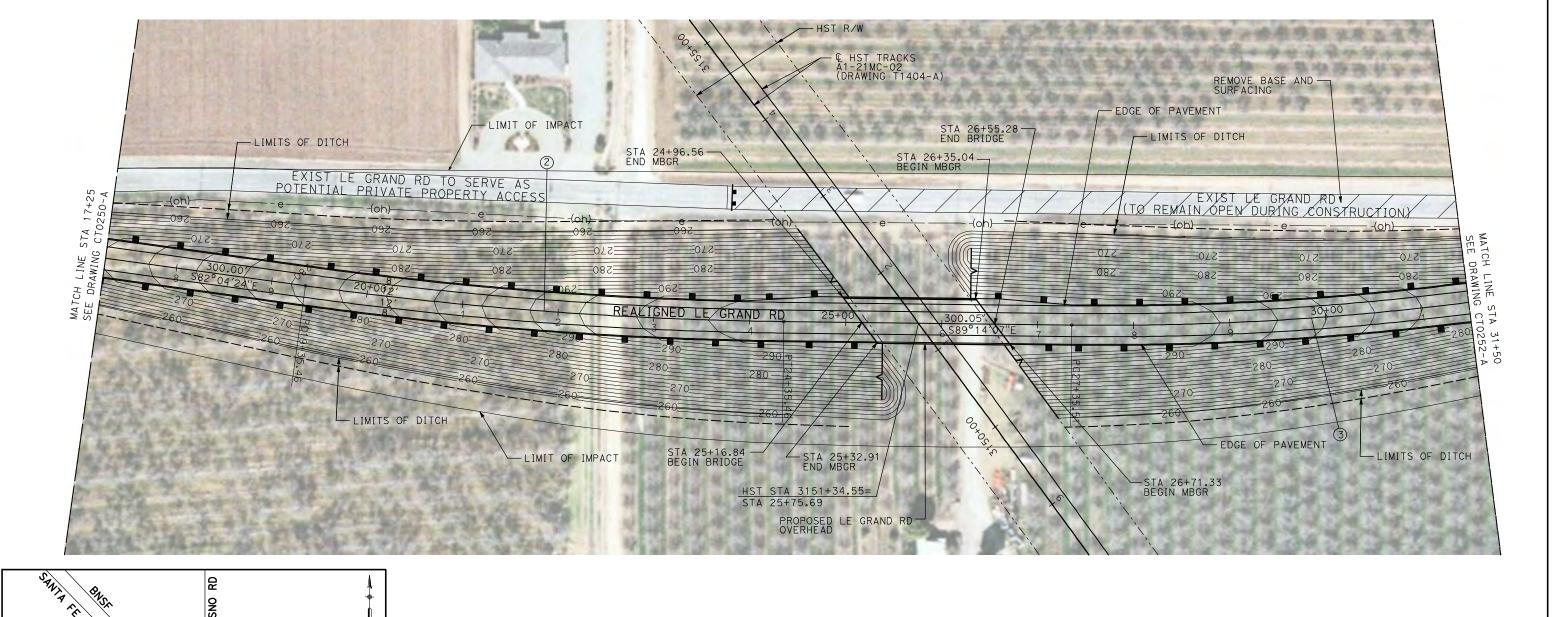
9°32′57''

② 4000.00′

③ 3000**.**00′

AS SHOWN

SHEET NO.
OF





LE GRAND RD

LOCATION 75-

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN N CHARGE A. BOONE 04/29/2011 BY CHK APP DESCRIPTION

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - LE GRAND RD LAYOUT SHEET 3 OF 3

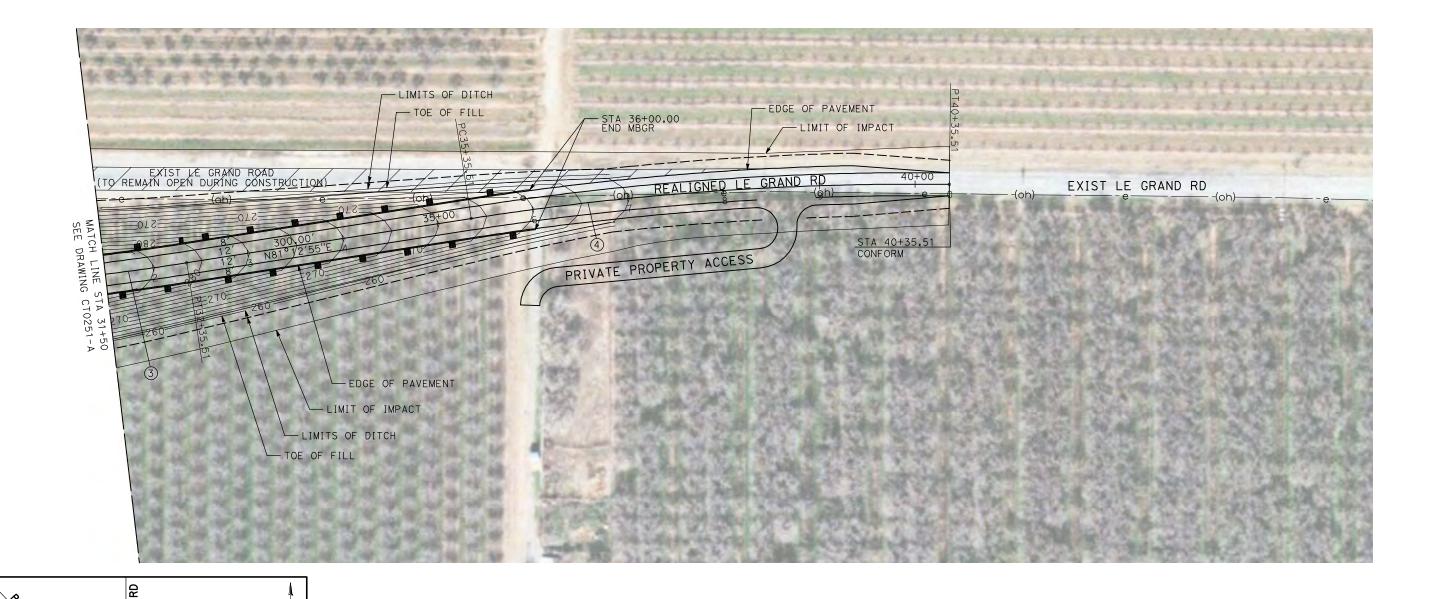
T	CONTRACT NO. HST06-007
	DRAWING NO.
	CT0252-A
	SCALE
	AS SHOWN
	SHEET NO. ### OF ###

CURVE DATA

9°32′57" | 250.58′ 45 MPH

500.00' 45 MPH

NO. R 3 3000.00′



NOTE:

NÎS

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1250-A THROUGH CT1252-A.





RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

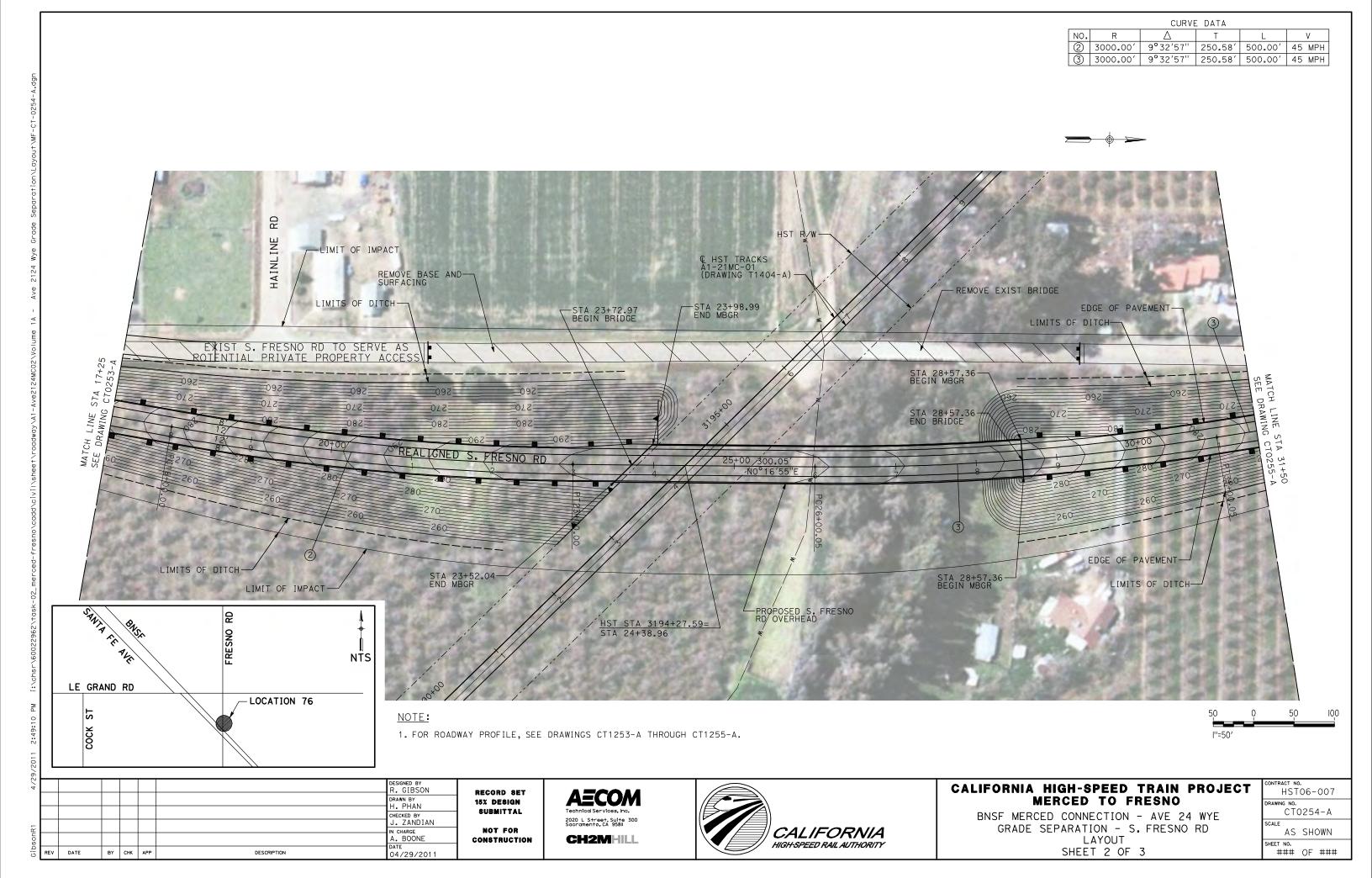
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. FRESNO RD LAYOUT SHEET 1 OF 3

•	CONTRACT NO. HST06-007
	DRAWING NO. CTO253-A
	AS SHOWN
	SHEET NO. ### OF ###

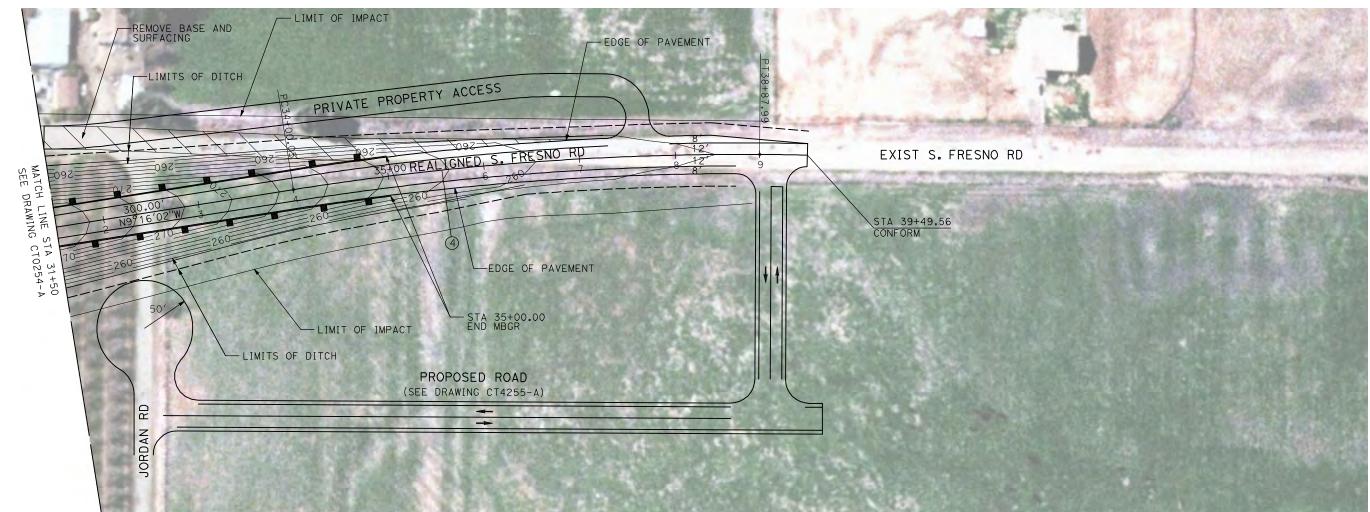


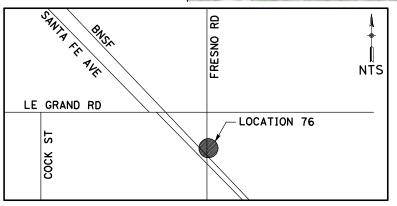
 CURVE DATA

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 Φ
 3000.00′
 9°19′08"
 244.51′
 487.94′
 45 MPH

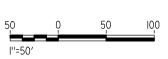






)TE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1253-A THROUGH CT1255-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN
						IN CHARGE
						A. BOONE
						DATE
REV	DATE	BY	CHK	APP	DESCRIPTION	04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. FRESNO RD LAYOUT SHEET 3 OF 3

Τ	CONTRACT NO. HST06-007
	DRAWING NO. CTO255-A
	AS SHOWN
	SHEET NO. ### OF ###

 CURVE DATA

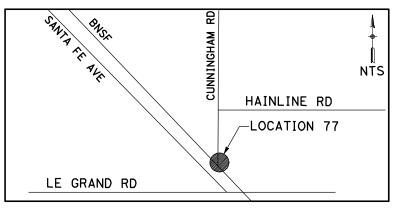
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 ①
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

 ②
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

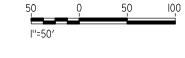






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1256-A THROUGH CT1258-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011
						04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. CUNNINGHAM RD LAYOUT SHEET 1 OF 3

1	CONTRACT NO.
ı	HST06-007
	DRAWING NO.
	CT0256-A
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BY CHK APP

DESCRIPTION

04/29/2011

SHEET 2 OF 3

OF

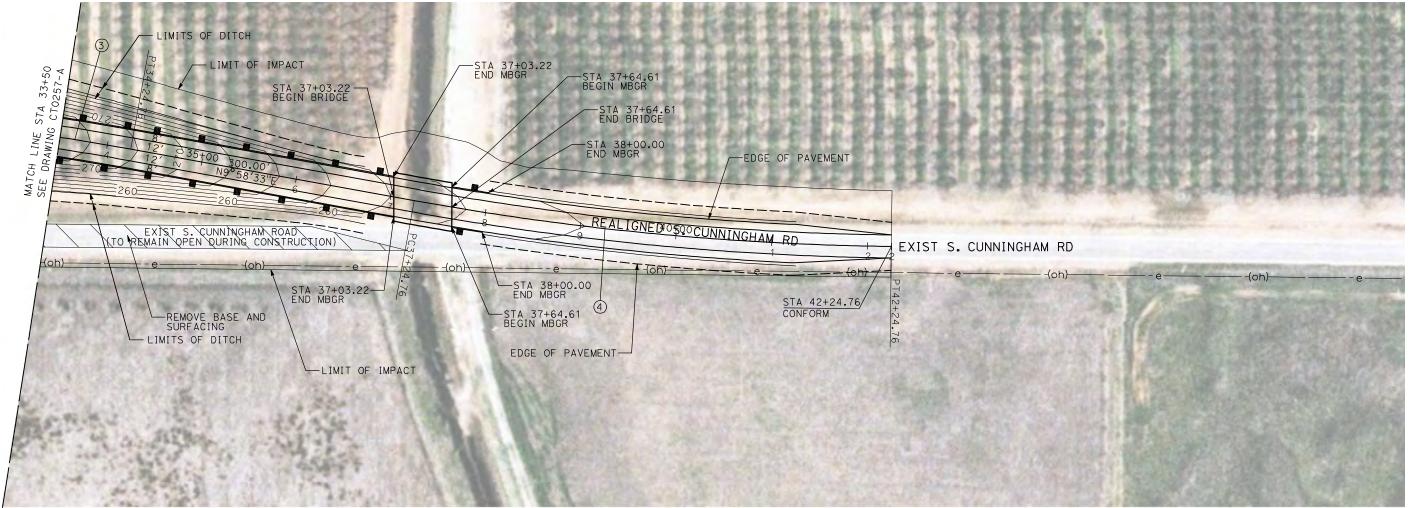
CURVE DATA

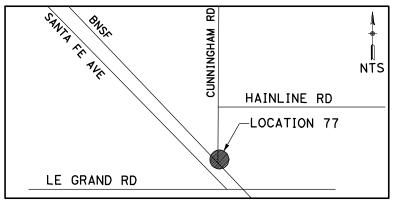
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 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

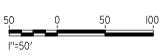
 ④
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH







1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1256-A THROUGH CT1258-A.



					DESIGNED BY R. GIBSON
					DRAWN BY H. PHAN
					CHECKED BY
					J. ZANDIAN IN CHARGE
					A. BOONE
DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011
	DATE	DATE BY	DATE BY CHK	DATE BY CHK APP	

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. CUNNINGHAM RD LAYOUT SHEET 3 OF 3

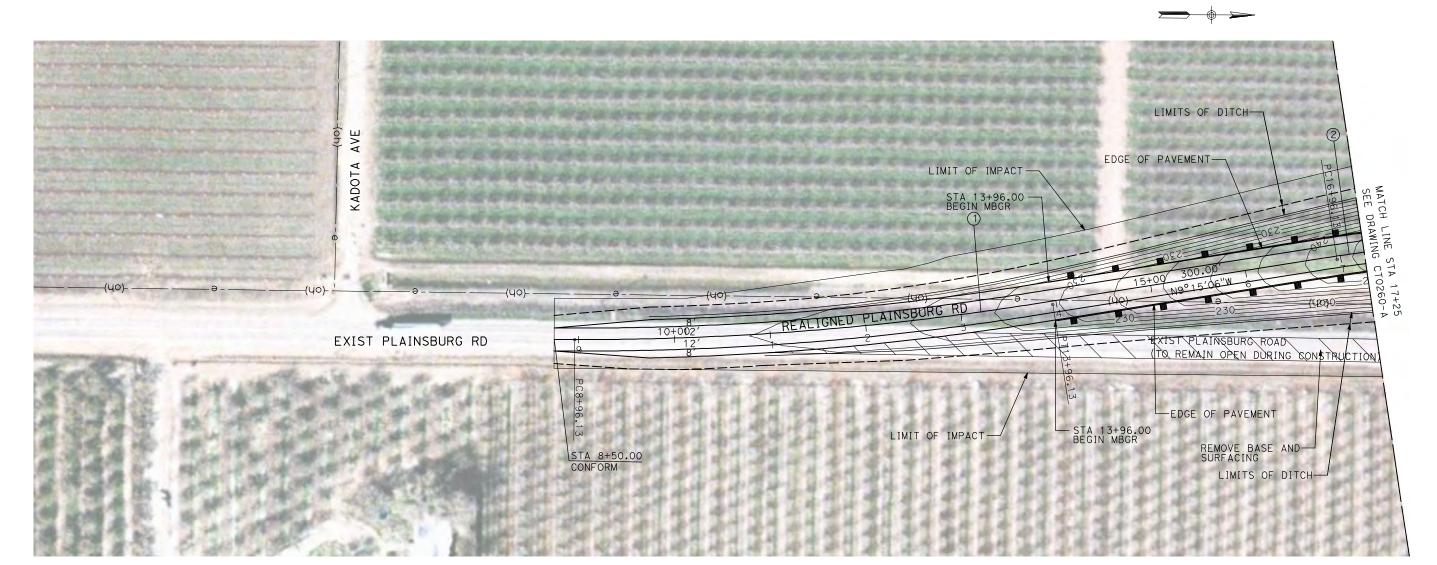
CONTRACT NO. HST06-007
DRAWING NO. CTO258-A
SCALE AS SHOWN
SHEET NO. ### OF ###

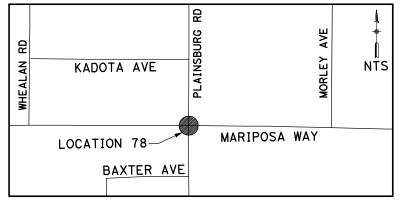
 CURVE DATA

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 (1)
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH

 (2)
 3000.00′
 9°32′57"
 250.58′
 500.00′
 45 MPH





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1259-A THROUGH CT1261-A.



						DESIGNED BY R. GIBSON
						DRAWN BY
						CHECKED BY
						J. ZANDIAN IN CHARGE
						A. BOONE
EV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011
	•					

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION



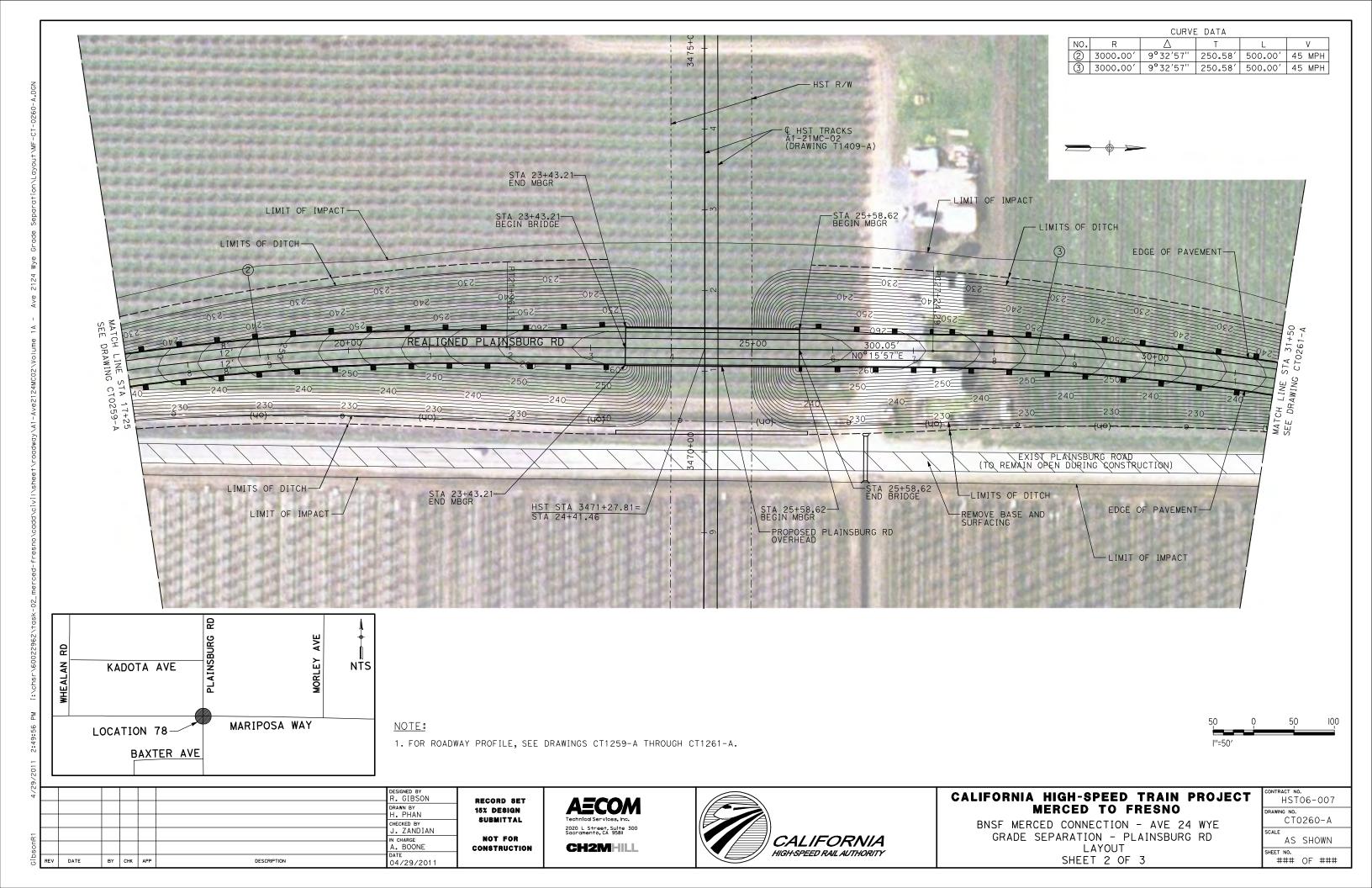


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD LAYOUT SHEET 1 OF 3

CONTRA	ACT NO).	_
	HST	06-007	
DRAWIN	G NO.		
	CTO)259-A	
SCALE			
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OF

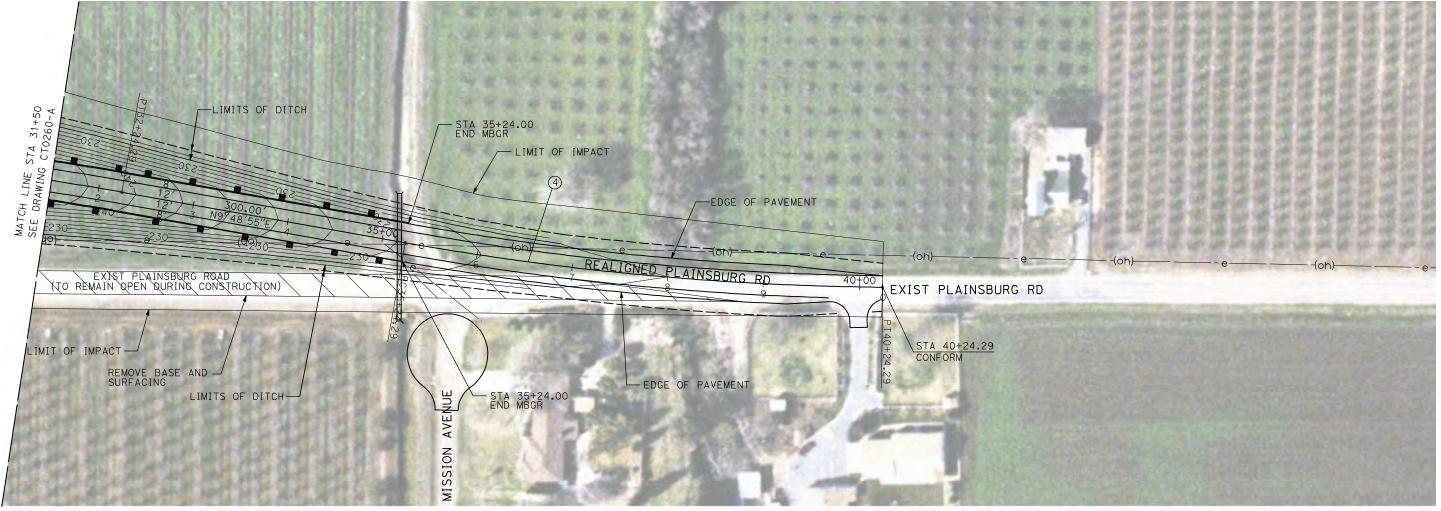


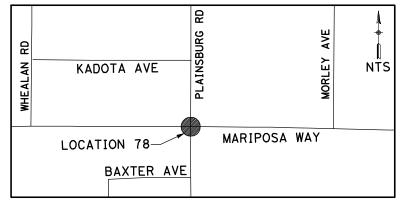
 CURVE DATA

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 ④
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH

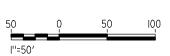






<u>IOTE:</u>

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1259-A THROUGH CT1261-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN IN CHARGE
						A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II
CH2MHILL

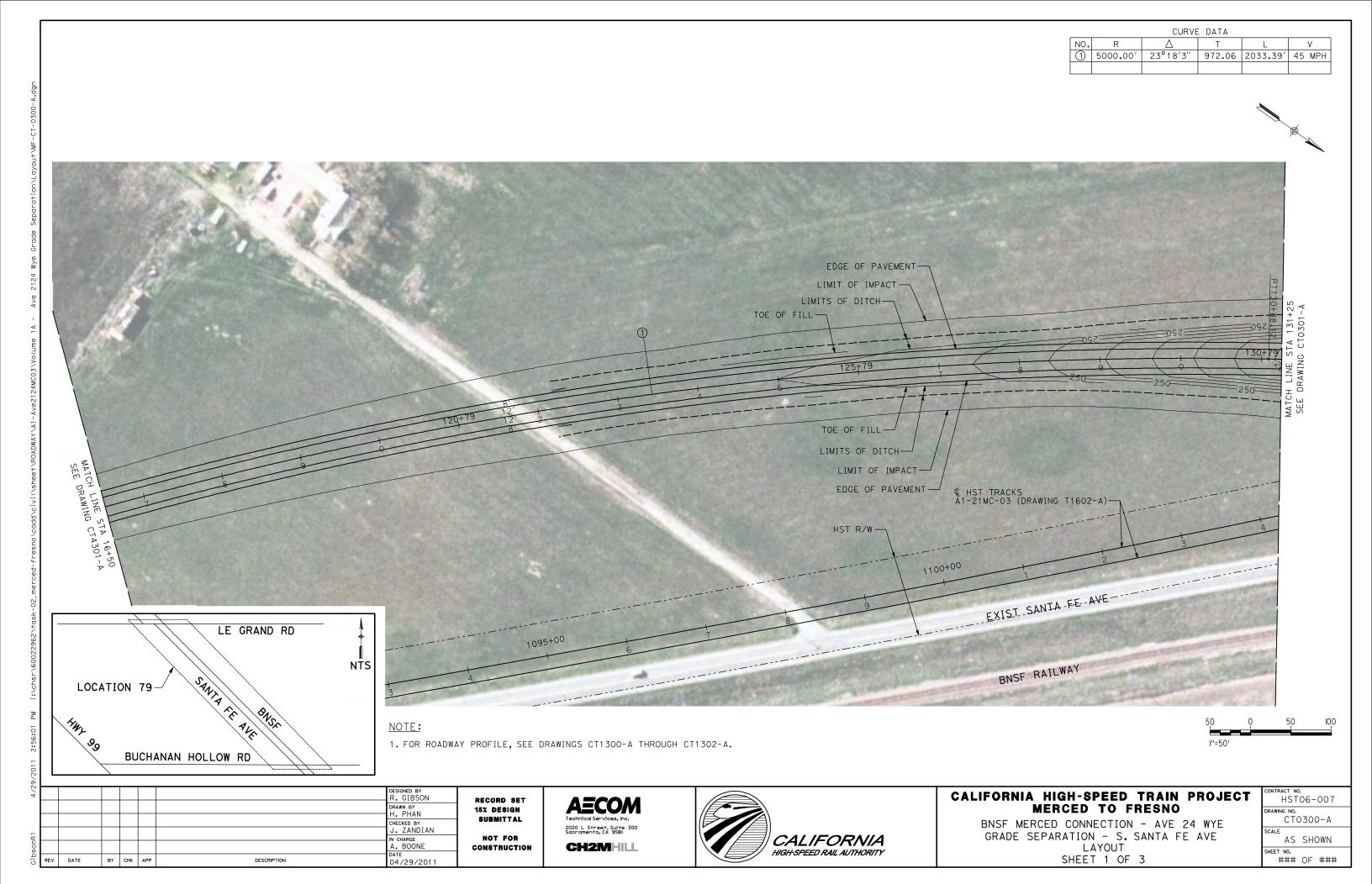


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

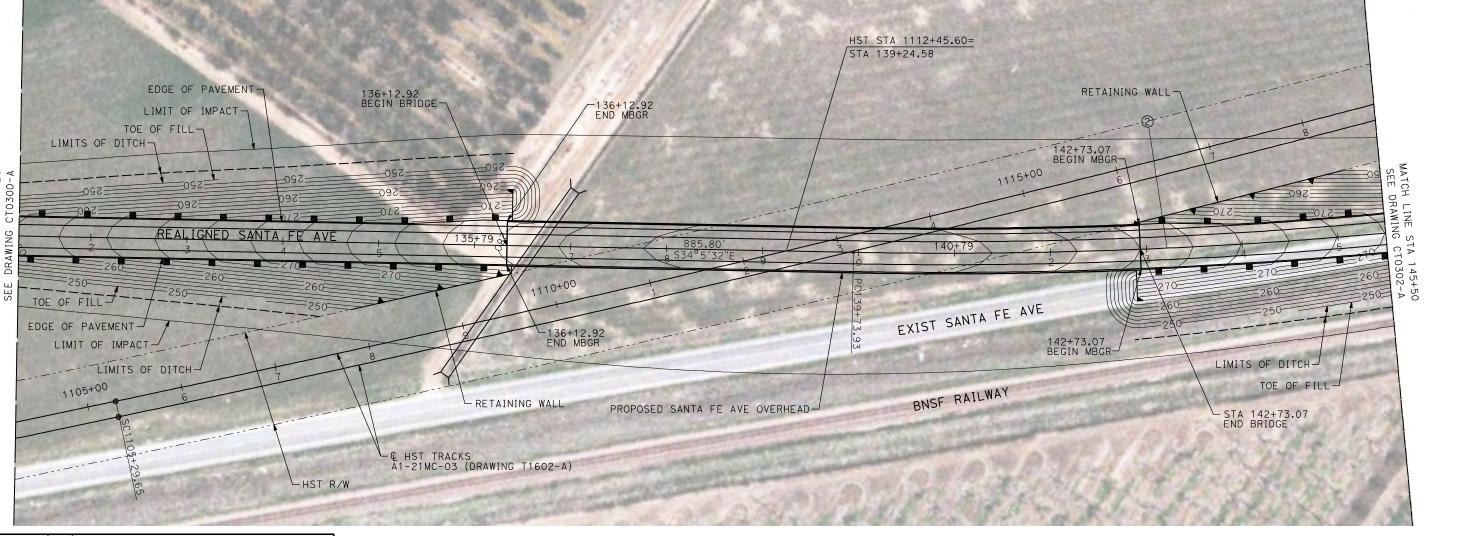
BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD LAYOUT SHEET 3 OF 3

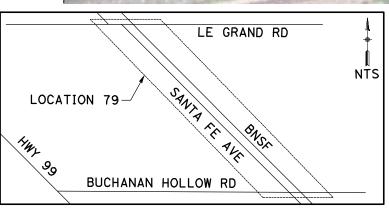
CONTRACT NO.
HST06-007
DRAWING NO.
CT0261-A
SCALE
AS SHOWN

SHEET NO. ### OF ###



CURVE DATA





DESCRIPTION

BY CHK APP

OTF:

DESIGNED BY R. GIBSON

CHECKED BY
J. ZANDIAN

04/29/2011

DRAWN BY H. PHAN

IN CHARGE A. BOONE

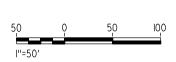
1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1300-A THROUGH CT1302-A.

RECORD SET

15% DESIGN SUBMITTAL

NOT FOR

CONSTRUCTION



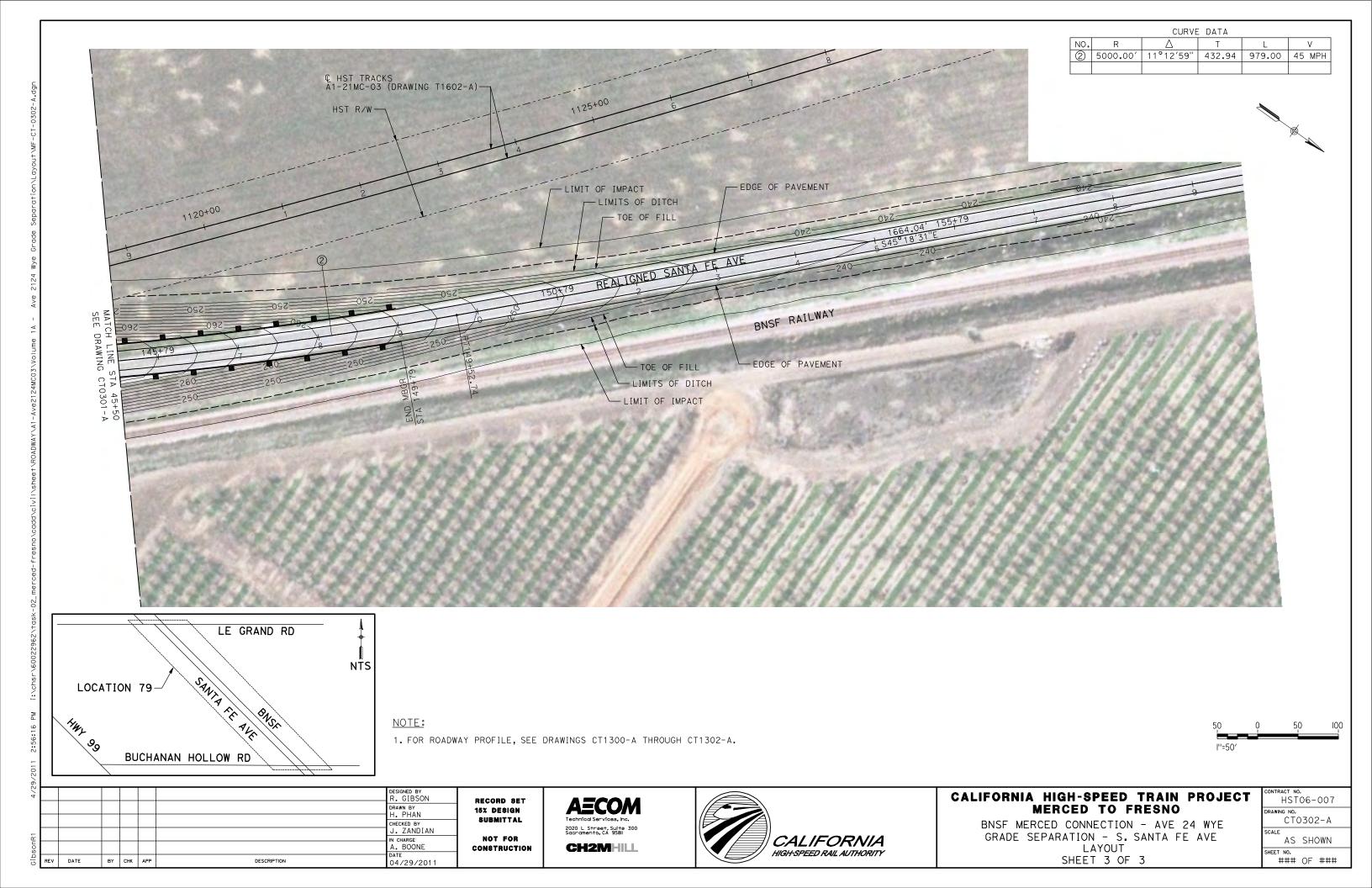
AECOM Technical Services, Inc.
2020 L Street, Suite 300 Sacramento, CA 958II
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. SANTA FE AVE LAYOUT SHEET 2 OF 3

Γ	CONTRACT NO. HST06-007
	DRAWING NO. CTO301-A
	SCALE AS SHOWN
	SHEET NO. ### OF ###



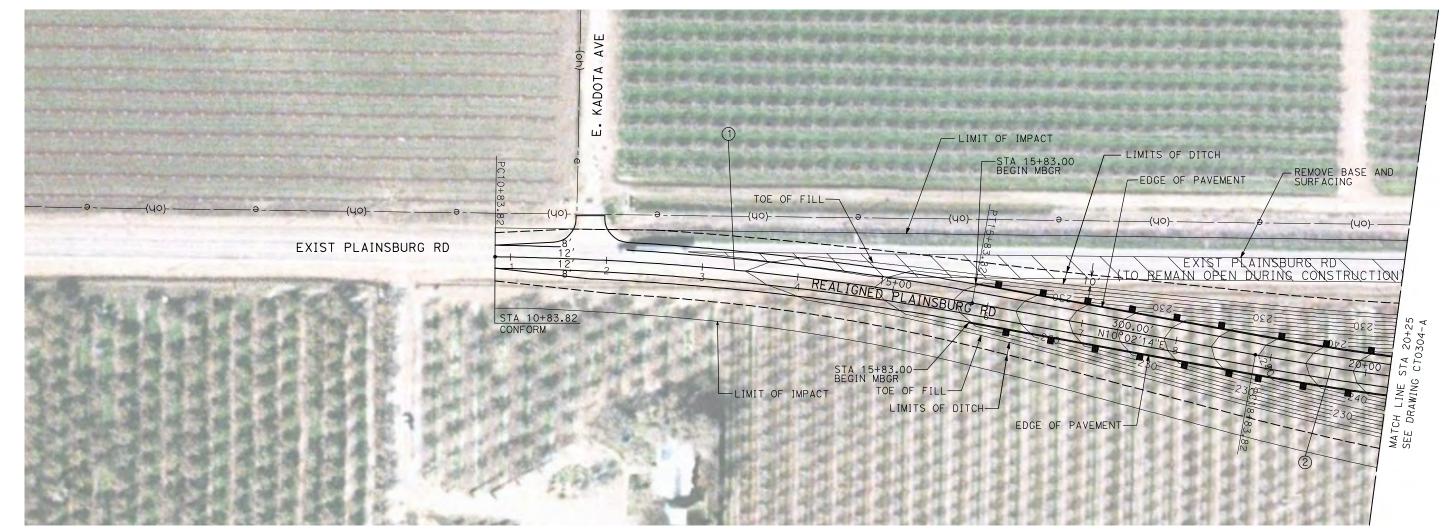
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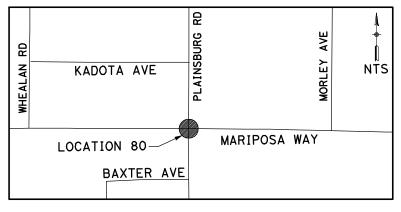
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 ①
 3000.00′
 9°32′57″
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 ②
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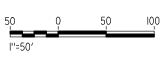






<u>IOTE:</u>

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1303-A THROUGH CT1305-A.



					DESIGNED BY R. GIBSON	
					DRAWN BY H. PHAN	
					CHECKED BY	
					J. ZANDIAN IN CHARGE	
					A. BOONE	
REV	DATE	BY	СНК	APP	DATE 04/29/2011	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 358II
CH2MILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

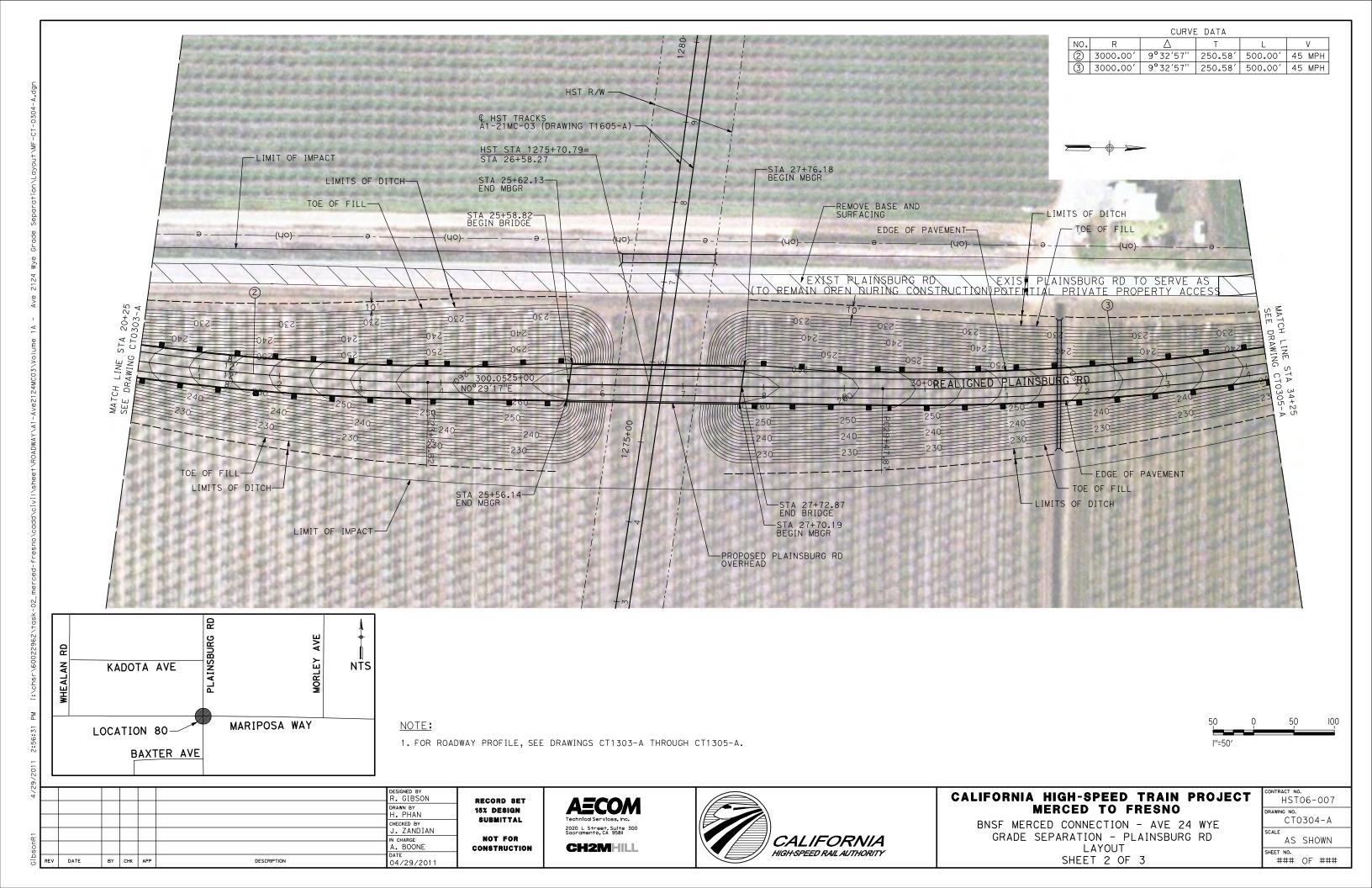
BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD LAYOUT SHEET 1 OF 3

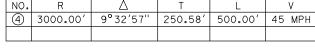
CONTRACT NO.
HST06-007
DRAWING NO.
CT0303-A
SCALE
AS SHOWN

AS SHOWN

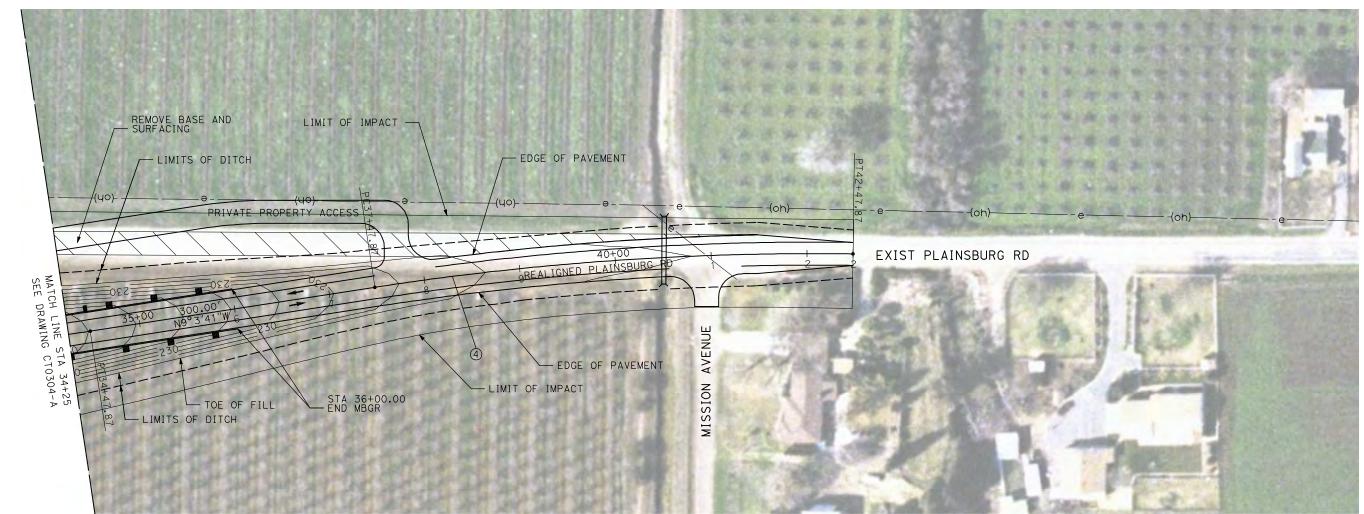
SHEET NO.

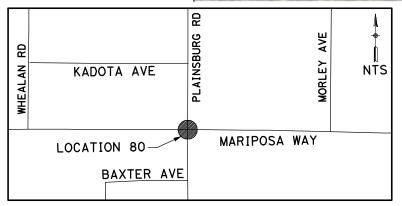
OF





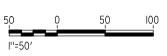






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1303-A THROUGH CT1305-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY J. ZANDIAN
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011
					<u> </u>	

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

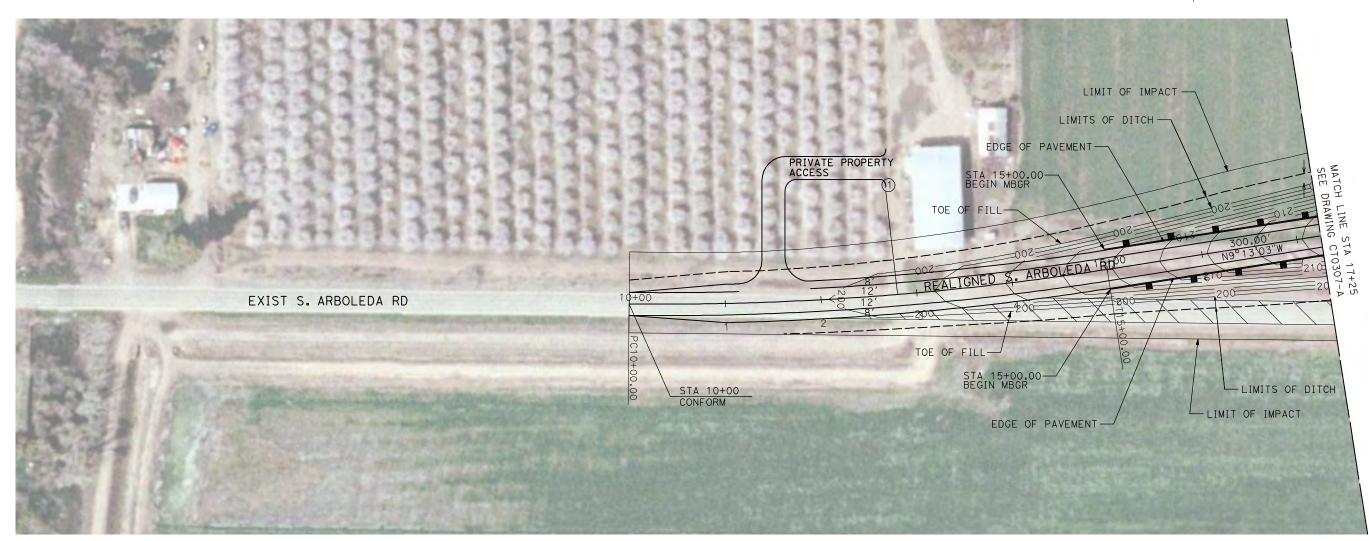


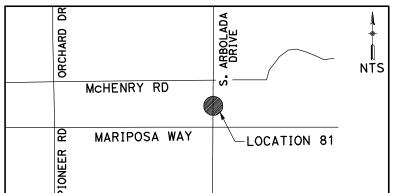


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD LAYOUT SHEET 3 OF 3

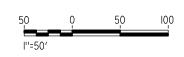
Γ	CONTRACT NO. HST06-007
	DRAWING NO. CTO305-A
	AS SHOWN
	SHEET NO. ### OF ###





NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1306-A THROUGH CT1308-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN
						A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ARBOLEDA RD LAYOUT SHEET 1 OF 3

T	CONTRACT NO. HST06-007
	DRAWING NO. CTO306-A
	AS SHOWN
	SHEET NO. ### OF ###

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

NOT FOR

CONSTRUCTION

CH2MHILL

IN CHARGE A. BOONE

04/29/2011

CURVE DATA

GRADE SEPARATION - S. ARBOLEDA RD

LAYOUT

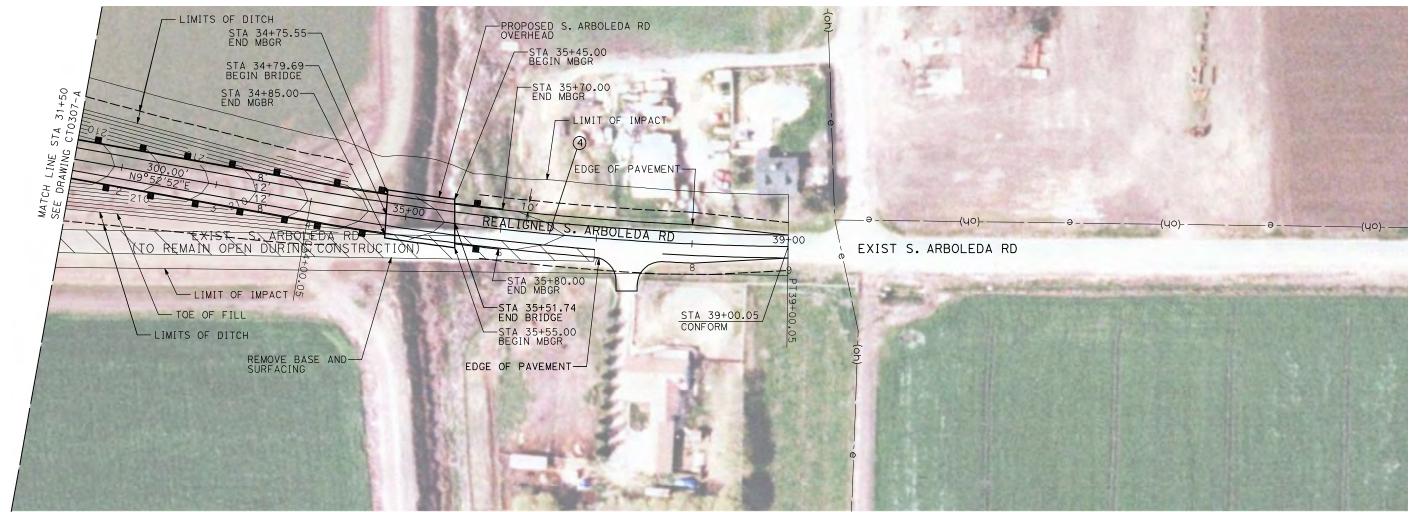
SHEET 2 OF 3

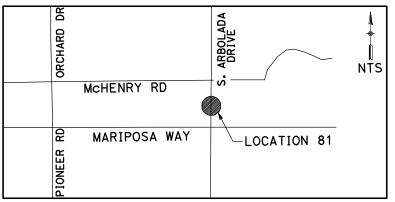
AS SHOWN

OF

BY CHK APP

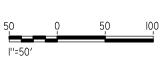






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1306-A THROUGH CT1308-A.



					_	
						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						IN CHARGE
						A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ARBOLEDA RD LAYOUT SHEET 3 OF 3

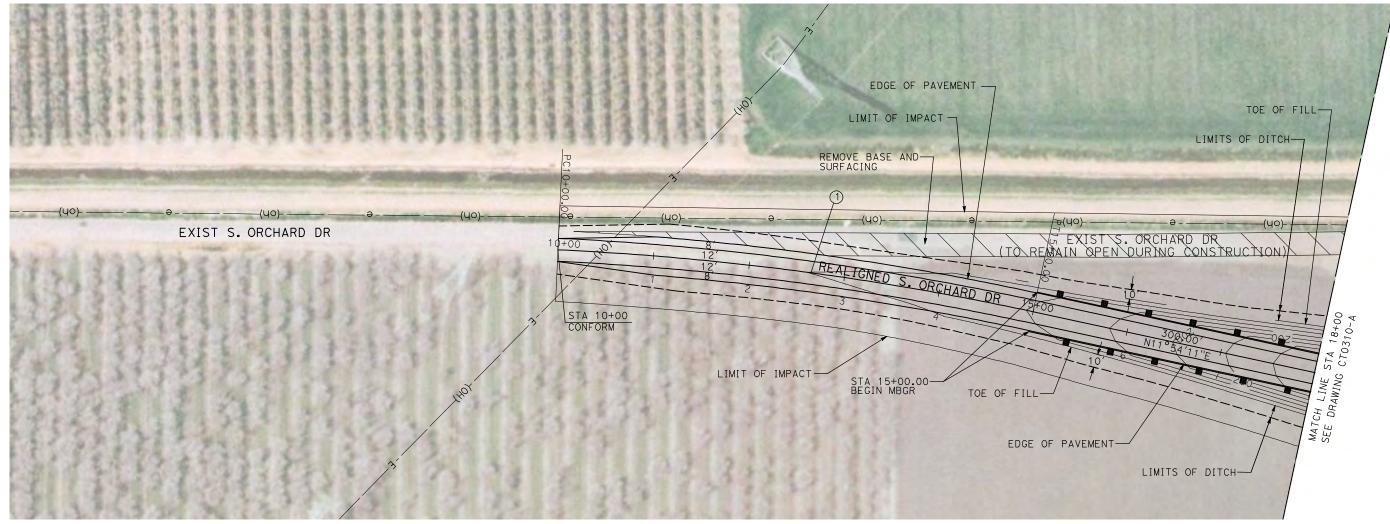
CONTRACT NO.
HST06-007
DRAWING NO. CTO308-A
SCALE
AS SHOWN
SHEET NO. ### OF ###

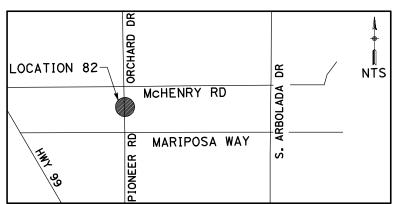
 CURVE DATA

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 9°32′57″
 250.58′
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NOTE

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1309-A THROUGH CT1311-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN IN CHARGE
						A. BOONE
EV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011
					·	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

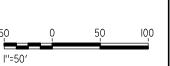
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ORCHARD DR LAYOUT SHEET 1 OF 3

CONTRACT NO. HST06-007
DRAWING NO. CTO309-A
SCALE AS SHOWN
SHEET NO. ### OF ###



CURVE DATA

_ <u>NOTE:</u>

04/29/2011

NTS

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1309-A THROUGH CT1311-A.

DESIGNED BY
R. GIBSON

DRAWN BY
H. PHAN
CHECKED BY
J. ZANDIAN
IN CHARGE
A. BOONE

DESCRIPTION

McHENRY RD

MARIPOSA WAY

LOCATION 82-

BY CHK APP

15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

RECORD SET

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Sacramento, CA 958II
CH2MHILL

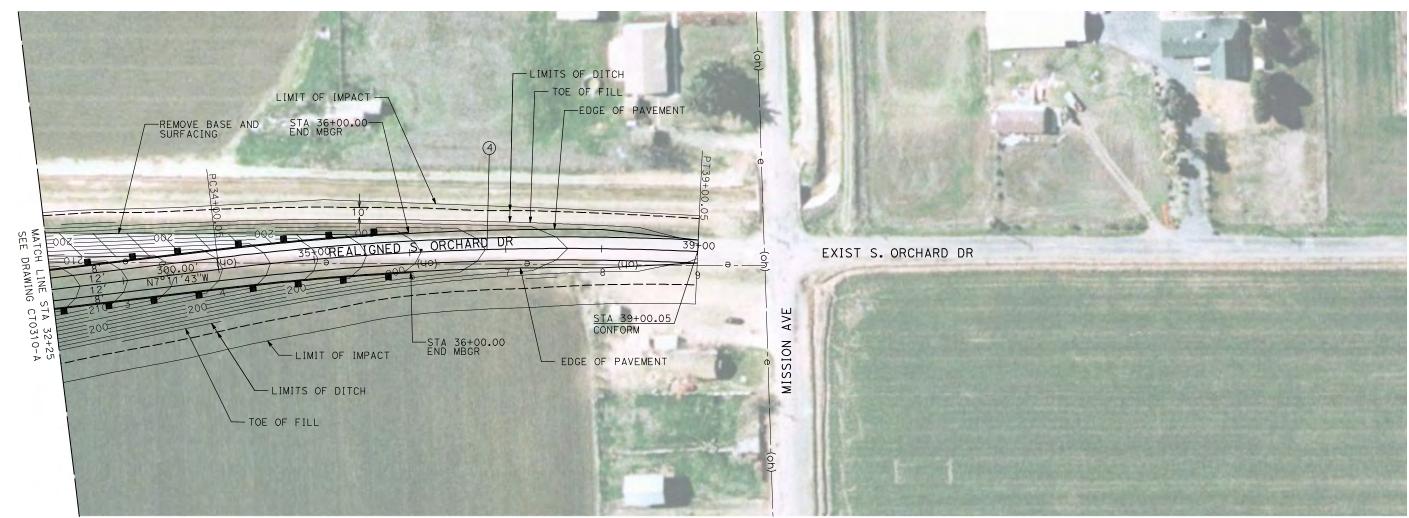


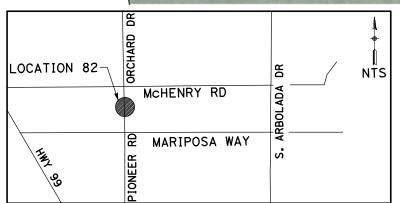
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ORCHARD DR LAYOUT SHEET 2 OF 3

CONTRACT NO.	
HST06-007	
DRAWING NO.	
CT0310-A	
SCALE	
AS SHOWN	

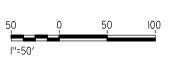






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT1309-A THROUGH CT1311-A.



						DESIGNED BY R. GIBSON
						DRAWN BY H. PHAN
						CHECKED BY
						J. ZANDIAN IN CHARGE
						A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ORCHARD DR LAYOUT SHEET 3 OF 3

T	CONTRACT NO. HST06-007
	DRAWING NO.
	CT0311-A
	SCALE
	AS SHOWN
	SHEET NO. ### OF ###

CONSTRUCTION

BY CHK APP

DESCRIPTION

CH2MHILL

SUPERELEVATION TEMPLATE SHEET 1 OF 4

CONSTRUCTION

BY CHK APP

DESCRIPTION

CH2MHILL

SUPERELEVATION TEMPLATE SHEET 2 OF 4

BY CHK APP

DESCRIPTION

NOT FOR CONSTRUCTION 2020 L Street, Suite 300 Sacramento, CA 95811 **CH2M**HILL



GRADE SEPARATION SUPERELEVATION TEMPLATE SHEET 3 OF 4

CONTRACT NO.							
HSR06-007							
DRAWING NO.							
CT0998-A							
SCALE							
AS SHOWN							

CONSTRUCTION

BY CHK APP

DESCRIPTION

CH2MHILL

SUPERELEVATION TEMPLATE SHEET 4 OF 4

350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 310 310 305 + PG STA 22+25 300 295 SEE DRAWING 400′ VC SSD 489′ 290 285 280 280 PROFILE 275 SCALE HORIZ: 1"=50' VERT: 1"=5' 270 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 9 PROFILE SHEET 1 OF 3 SUBMITTAL CT1000-A CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

BY CHK APP

DESCRIPTION

365 360 360 355 355 350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 315 310 310 305 305 300 300 400' VC SSD 476' 295 295 OG 290 -0.26% PROFILE 285 +44.30 Elev 29 SCALE HORIZ: 1"=50' VERT: 1"=5' 280 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 9 PROFILE SHEET 3 OF 3 SUBMITTAL CT1002-A CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY

DATE 04/29/2011

DESCRIPTION

BY CHK APP

350 345 345 340 340 335 335 330 330 325 320 320 315 315 310 310 305 300 +28.95 EVC Elev 288.84 — PG 295 290 400′ VC SSD 502′ 285 280 280 275 275 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 270 270 265 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 10 PROFILE SHEET 1 OF 3 SUBMITTAL CT1003-A CHECKED BY
J. ZANDIAN CALIFORNIA NOT FOR AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 06/30/2011

DATE

BY CHK APP

350 345 345 340 340 335 335 330 330 325 320 320 315 315 800' VC SSD 365' DS 45MPH 310 310 300 ⊢ MATCH C62 SEE DRAWING 290 290 285 - OG -HST TOR = 289.97 280 280 275 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 270 265 30 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1004-A BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 10 CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **PROFILE CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 06/30/2011 SHEET 2 OF 3 ### OF ### DATE BY CHK APP DESCRIPTION

350 345 345 340 340 335 335 330 330 325 320 320 315 315 310 310 305 305 300 300 295 295 290 290 400' VC SSD 512' 285 280 280 -0.49% 275 275 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 270 265 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO SUBMITTAL CT1005-A BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 10 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **PROFILE CH2MHILL** CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 06/30/2011

DATE

BY CHK APP

DESCRIPTION

SHEET 3 OF 3

345 340 340 335 335 330 330 325 325 320 320 315 315 310 310 305 305 300 300 295 290 290 +13.10 Elev 279.12 400′ VC SSD 497′ CH LINE STA 25+25 DRAWING CT1007-A 285 285 280 0.40% 280 275 270 270 <u> 265</u> 265 PROFILE SCALE HORIZ: 1"=50 VERT: 1"=5' 25 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON HSRO6-007 CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN DRAWN BY F. DEMARCO MERCED TO FRESNO CT1006-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 11 PROFILE SHEET 1 OF 3 CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 CALIFORNIA HIGH-SPEED RAIL AUTHORITY NOT FOR AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION ### OF ###

DATE 06/30/2011

DATE

BY CHK APP

355 350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 310 310 800' VC SSD 365' DS 45MPH 305 305 300 290 岁 - OG 280 280 +HST_TOR _=_287,89 --275 PROFILE SCALE_HORIZ: 1"=50" VERT: 1"=5" NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO CT1007-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 11 CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 CALIFORNIA HIGH-SPEED RAIL AUTHORITY NOT FOR AS SHOWN N CHARGE A. BOONE PROFILE SHEET 2 OF 3 **CH2MHILL** CONSTRUCTION HEET NO. ### DATE 06/30/2011

DATE

BY CHK APP

340 340 335 335 330 330 325 325 320 320 315 315 310 310 305 305 300 300 295 295 — PG 290 290 +64.73 EVC Elev 279.07 400′ VC SSD 412′ 285 285 - og 280 -0.34% 280 275 275 270 270 265 265 PROFILE SCALE_HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN DRAWN BY F. DEMARCO MERCED TO FRESNO CT1008-A SUBMITTAL CHECKED BY
J. ZANDIAN N CHARGE A. BOONE

DATE

BY CHK APP

DESCRIPTION

NOT FOR CONSTRUCTION

DATE 06/30/2011

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL**



BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 11 PROFILE SHEET 3 OF 3

HSR06-007 AS SHOWN ### OF ###

300 295 295 345 290 290 340 285 335 — PG 280 330 400′ VC OG — 275 275 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 270 270 320 265 315 265 8 10 310 300 STA 24+2 CT1010-295 +64.52 Elev 281.94 +14.52 BVC Elev 281.19 500′ VC SSD 407′ 290 +20.49 BVC Elev 279.66 MAT(SEE 285 🖰 🖳 285 0.50% 280 🗒 🔻 300' VC SSD 815' 280 275 W WA 726 H 275 **PROFILE** SCALE HORIZ: 1"=50' VERT: 1"=5' 270 270 265 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1009-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 12 CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 06/30/2011 SHEET 1 OF 3 ### OF ###

DATE

BY CHK APP

350 345 345 340 340 335 335 330 330 325 320 320 315 315 PG_ 310 310 900′ VC SSD 365′ 305 305 300 74 24+25 T1009-A 290 N. W. SEE DR/ 280 280 →HST TOR = 285.99 275 275 **PROFILE** SCALE HORIZ: 1"=50' VERT: 1"=5' 270 265 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1010-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 12 PROFILE CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 06/30/2011 SHEET 2 OF 3 ### OF ### DATE BY CHK APP DESCRIPTION

295 295 290 290 285 ₹ 285 280 5世 280 275 ₹ 275 PROFILE 270 SCALE HORIZ: 1"=50' VERT: 1"=5' 270 265 265 0.50% — og **PROFILE** SCALE HORIZ: 1"=50' VERT: 1"=5' 45 50 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO CT1011-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 12 CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL PROFILE** CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY

SHEET 3 OF 3

DATE 06/30/2011

DATE

BY CHK APP

350 345 345 340 340 335 335 330 330 325 320 320 315 315 310 305 MATCH LINE STA 23+25 SEE DRAWING CT1013-A 300 295 295 400' VC SSD 444' 290 — og 290 0.00% 285 280 280 275 PROFILE 270 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1012-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 13 CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL PROFILE** CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY

SHEET 1 OF 3

DATE 06/30/2011

DATE

BY CHK APP

360 355 355 350 350 345 345 340 340 335 330 330 325 325 320 320 800'VC SSD 465' DS 45MPH — PG 315 310 BNSF TCH LINE DRAWING -HST TOR = 289.77 à 295 V S 290 290 74'45 285 **PROFILE** 280 280 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1013-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 13 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 06/30/2011 SHEET 2 OF 3 ### OF ### DATE BY CHK APP DESCRIPTION

345 345 340 340 335 335 330 330 325 320 320 315 315 310 310 305 305 300 300 +19.38 EVC Elev 286.29 400' VC SSD 568' 295 295 290 290 __ OG -0.76% 285 280 280 275 PROFILE 270 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1014-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 13 CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 NOT FOR AS SHOWN N CHARGE A. BOONE

DATE

BY CHK APP

DESCRIPTION

CONSTRUCTION

DATE 06/30/2011

CH2MHILL



PROFILE SHEET 3 OF 3

360 355 355 350 350 345 345 340 340 335 330 330 325 320 320 315 310 305 300 300 — PG 400′ VC SSD 549′ 295 290 290 285 PROFILE 280 280 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1015-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - AVENUE 15
PROFILE
SHEET 1 OF 3 CALIFORNIA HIGH-SPEED RAIL AUTHORITY NOT FOR AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION ### OF ### DATE 04/29/2011 BY CHK APP DESCRIPTION

360 355 355 350 350 345 345 340 340 335 330 330 325 325 800' VC SSD 365' DS 45MPH 320 320 DRAWING DRAWING 310 | MATCH COS SEE DRAWING -H\$T TOR = 299.84 R∕W BNSF BNSF 300 300 295 — og 290 290 285 PROFILE 280 SCALE HORIZ: 1"=50' VERT: 1"=5' 30 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1016-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - AVENUE 15
PROFILE
SHEET 2 OF 3 CALIFORNIA HIGH-SPEED RAIL AUTHORITY NOT FOR AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION DATE 04/29/2011 ### OF ### BY CHK APP DESCRIPTION

360 355 355 350 350 345 345 340 340 335 330 330 325 325 320 320 315 310 310 305 305 300 300 400′ VC SSD 563′ - OG 295 290 290 285 PROFILE 280 280 SCALE HORIZ: 1"=50' VERT: 1"=5' 40 45 50 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1017-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - AVENUE 15
PROFILE
SHEET 3 OF 3 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY

OF

DATE 04/29/2011

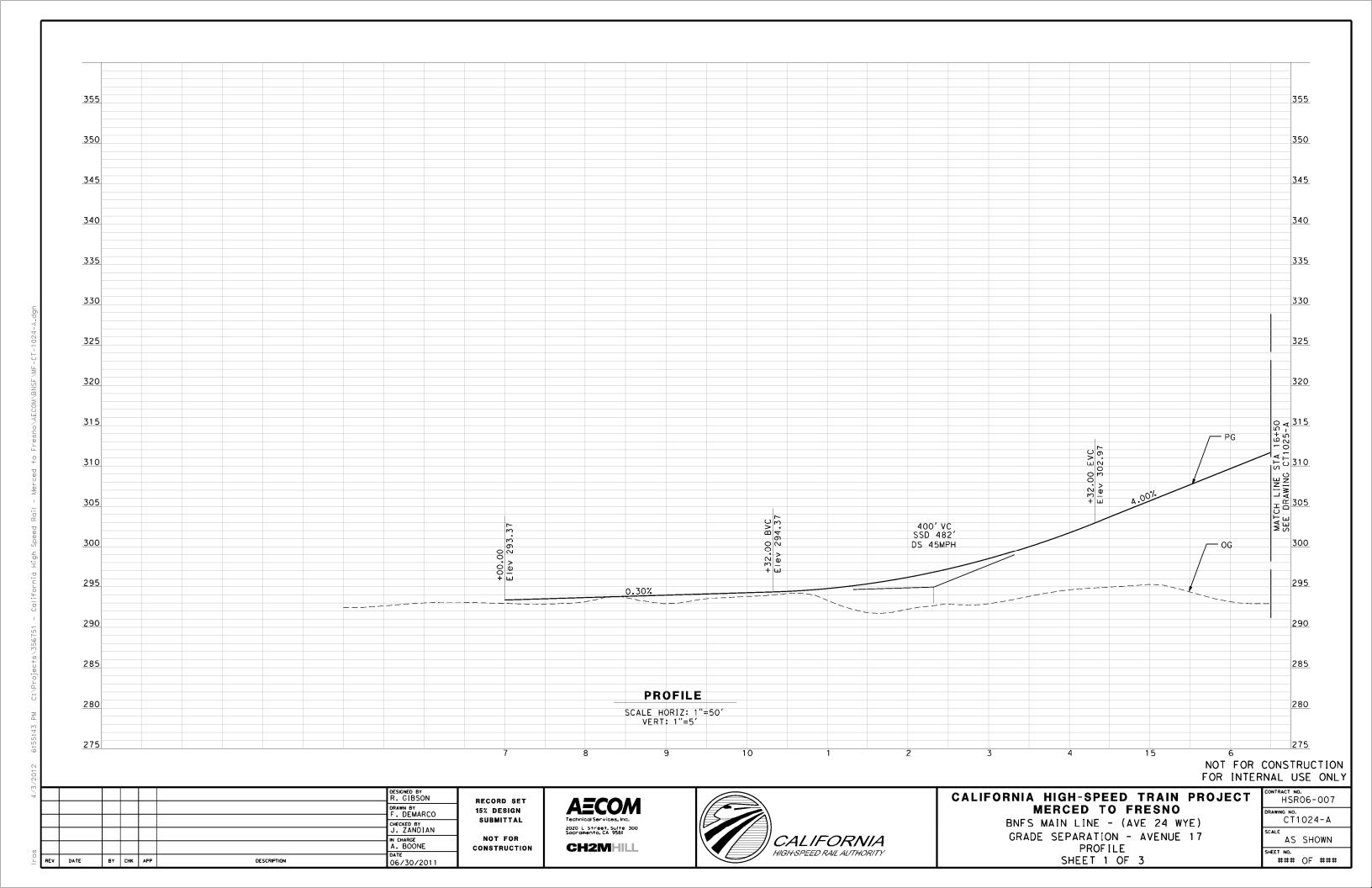
DESCRIPTION

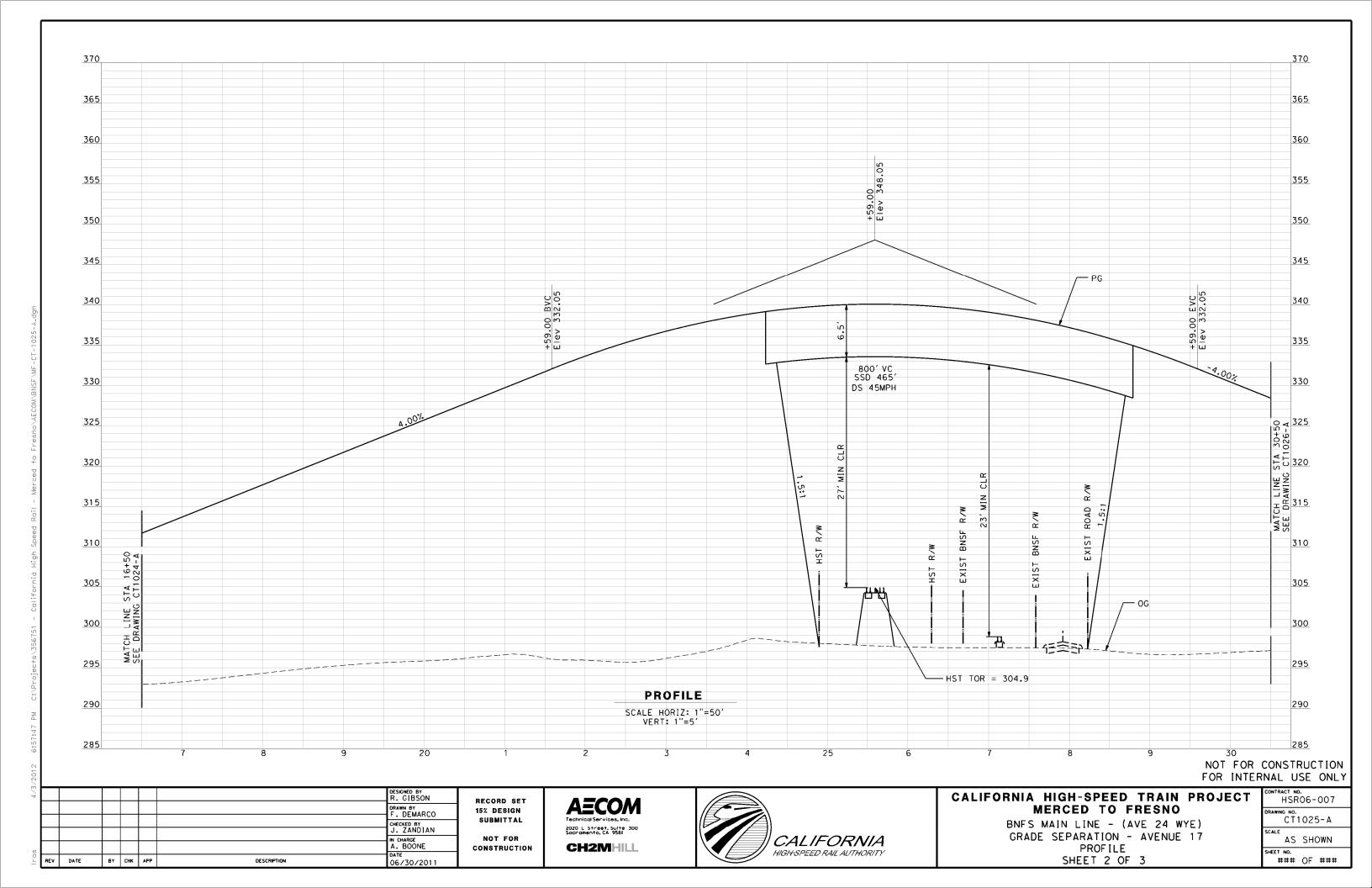
BY CHK APP

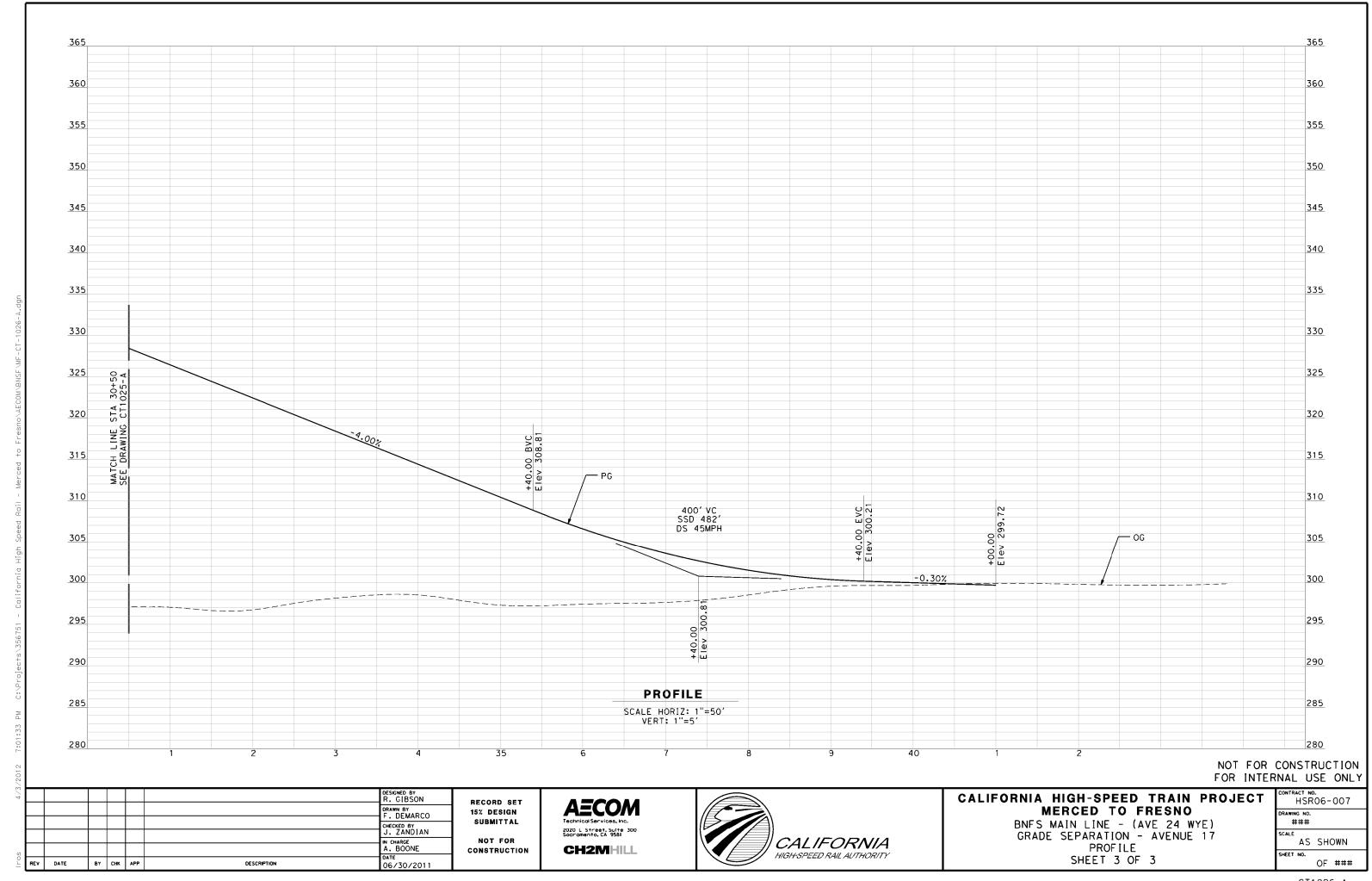
350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 310 MATCH LINE STA 17+25 SEE DRAWING CT1019-A +82,55 EVC Elev 299.33 - PG 305 300 400′ VC SSD 590 295 – og 290 0.84% 285 280 280 PROFILE 275 SCALE HORIZ: 1"=50' VERT: 1"=5' 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO SUBMITTAL CT1018-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - AVENUE 15 1/2 CALIFORNIA HIGH-SPEED RAIL AUTHORITY NOT FOR AS SHOWN N CHARGE A. BOONE PROFILE SHEET 1 OF 3 **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### DATE 04/29/2011

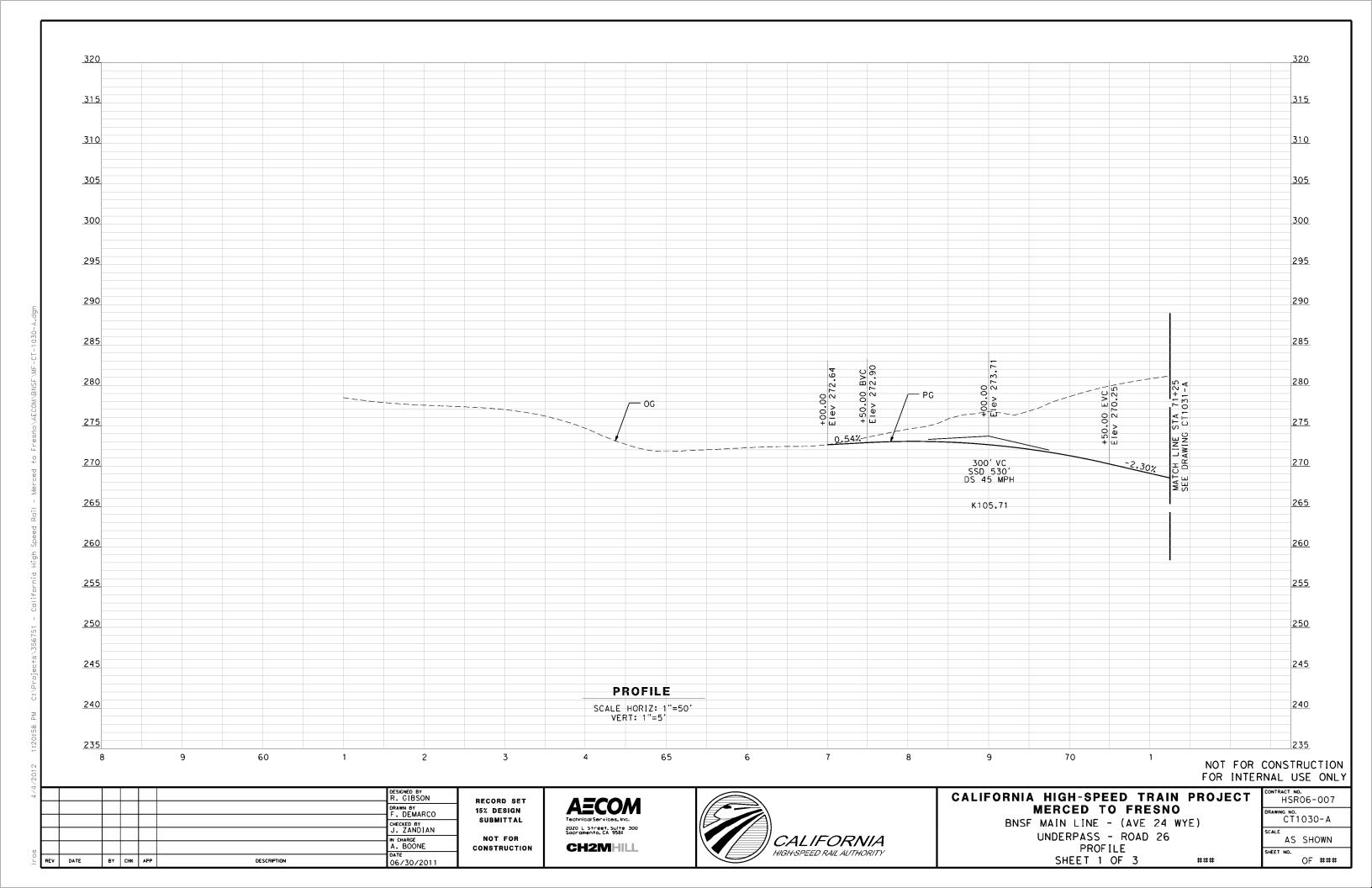
BY CHK APP

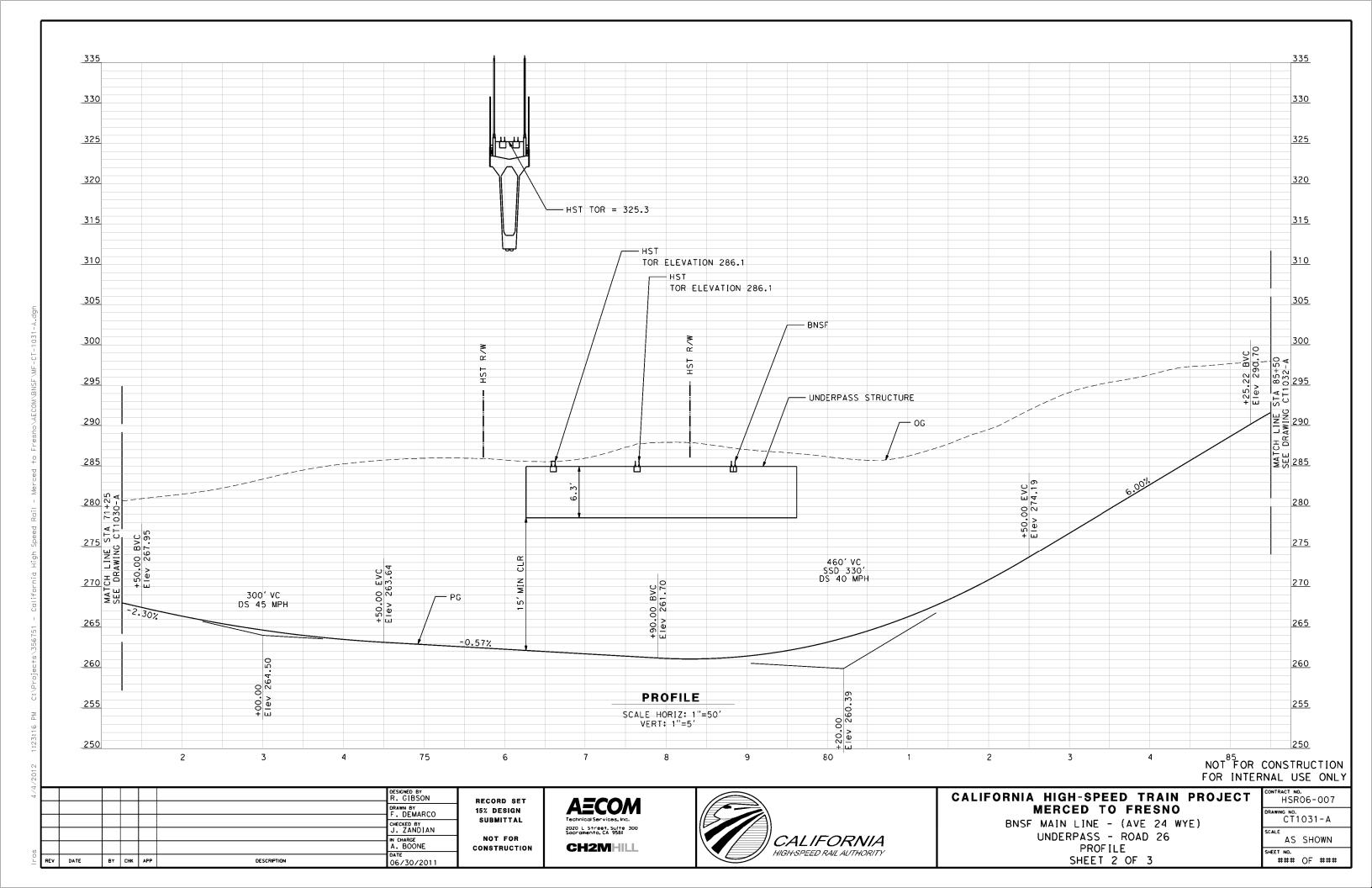
360 360 355 355 350 350 345 345 340 335 335 330 330 325 320 320 <u>2</u> 2 315 310 310 305 305 300 300 295 295 — og +12.54 Elev, 296.52 290 PROFILE 285 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY 35 DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1020-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - AVENUE 15 1/2 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE PROFILE SHEET 3 OF 3 **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 BY CHK APP DESCRIPTION

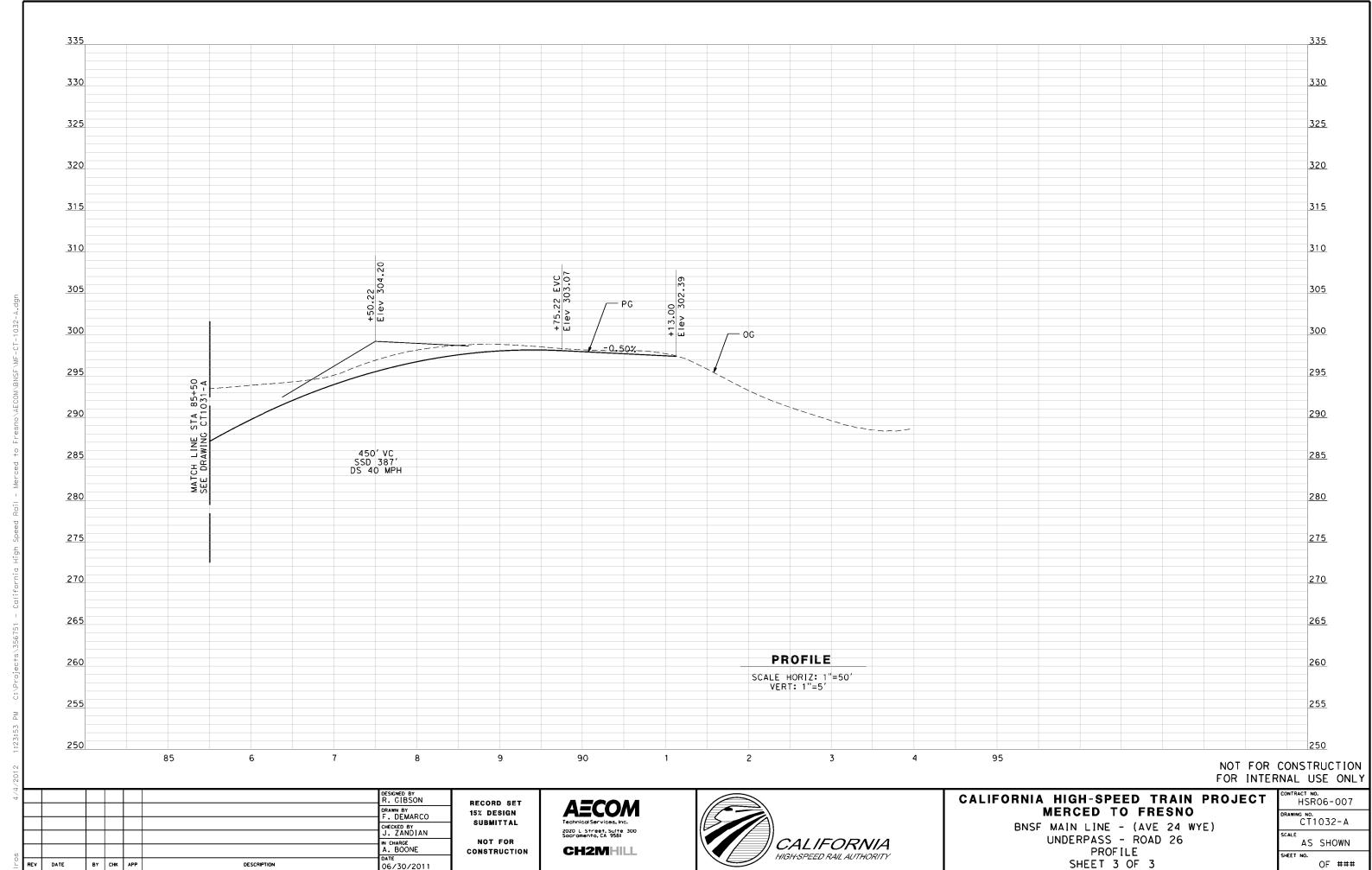












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340 335 335 330 330 325 325 320 320 315 310 310 305 305 300 300 SEE DRAWING CT1034+5 CORAWING 295 290 285 - OG 400' VC SSD 530' 280 280 275 275 270 270 265 265 **PROFILE** SCALE HORIZ: 1"=50' VERT: 1"=5' 260 260 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1033-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - AVENUE 21 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE PROFILE SHEET 1 OF 3 **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 BY CHK APP DESCRIPTION

345 345 340 340 335 335 330 330 325 320 320 315 315 800′ VC SSD 465′ DS 45MPH 310 310 305 305 300 R ∕w BNSF BNSF 295 CH CHINE See S ₹ 290 285 – og 280 280 →HST TOR = 289.99 275 275 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 270 25 NOT FOR CONSTRUCTION 20 FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1034-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - AVENUE 21 PROFILE NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 BY CHK APP DESCRIPTION

350 345 345 340 340 335 335 330 330 325 320 320 315 315 310 310 305 305 300 300 +84.98 BVC Elev 278.50 295 295 290 290 +22.69 Elev 270.60 400′ VC SSD 455′ MAT — og 285 285 -0.09% 280 280 +84.98 Elev 268.54 275 **PROFILE** 270 SCALE HORIZ: 1"=50' VERT: 1"=5' 35 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1035-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - AVENUE 21 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL PROFILE** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 3 OF 3 BY CHK APP DESCRIPTION

360 360 355 355 350 350 345 345 340 340 335 330 330 325 325 320 320 315 310 310 305 300 400' VC SSD 624' 295 290 290 285 _____ PROFILE 280 280 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1036-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - ROAD 24 CALIFORNIA HIGH-SPEED RAIL AUTHORITY NOT FOR AS SHOWN N CHARGE A. BOONE PROFILE SHEET 1 OF 3 **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### DATE 04/29/2011 BY CHK APP DESCRIPTION

360 355 355 350 350 345 345 340 340 335 330 330 325 325 320 320 1000' VC SSD 519' DS 45MPH 315 310 MATCH CAN SEE DRAWING 290 290 285 285 →HST TOR = 293.86 PROFILE 280 280 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1037-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - ROAD 24 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 ### OF ### BY CHK APP DESCRIPTION

360 355 355 350 350 345 345 340 340 335 330 330 325 325 320 320 315 310 310 305 305 300 300 400' VC SSD 506' 295 - OG 290 290 -0.45% 285 PROFILE 280 280 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1038-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - ROAD 24 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL PROFILE** CONSTRUCTION

DATE 04/29/2011

DESCRIPTION

BY CHK APP

HIGH-SPEED RAIL AUTHORITY

SHEET NO. ### OF ###

SHEET 3 OF 3

360 355 355 350 350 345 345 340 340 335 330 330 325 325 320 315 310 305 MATCH LINE S SEE DRAWING 300 300 295 400′ VC SSD 521 — og 290 290 285 PROFILE 280 280 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1045-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - SANTA FE DR
PROFILE
SHEET 1 OF 3 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 BY CHK APP DESCRIPTION

360 355 355 350 350 345 345 340 340 335 330 330 325 325 800'VC SSD 465' DS 45MPH 320 320 315 315 1045-2010 MATCH LINE SEE DRAWING −a` 295 290 290 \rightarrow HST TOR = 295.53 285 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 280 280 20 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1046-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - SANTA FE DR
PROFILE
SHEET 2 OF 3 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 ### OF ### BY CHK APP DESCRIPTION

355 355 350 350 345 345 340 340 335 330 330 325 325 320 320 315 310 310 305 305 +35.80 BVC Elev 293.29 300 300 295 400' VC SSD 518' 290 290 285 -0.52% PROFILE 280 SCALE HORIZ: 1"-50' VERT: 1"-5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1047-A BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - SANTA FE DR
PROFILE
SHEET 3 OF 3 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 ### OF ### BY CHK APP DESCRIPTION

330 330 325 325 320 320 315 315 310 310 305 305 300 300 295 290 285 +77.40 EVC Elev 274.00 280 275 +77.40 BVC Elev 265.39 400' VC SSD 484' - OG 270 270 0.31% 265 265 -----260 260 **PROFILE** 255 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN RAWING NO. CT1048-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - BUCHANAN HALLOW RD NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE PROFILE SHEET 1 OF 3 **CH2M**HILL CONSTRUCTION SHEET NO. ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 BY CHK APP DESCRIPTION

BY CHK APP

DESCRIPTION

330 330 325 325 320 320 315 315 310 310 305 305 300 300 295 290 290 285 285 +26.60 BVC Elev 272.71 280 280 275 400' VC SSD 490 +24.90 Elev 263.26 270 270 - 06 265 265 -0.36% 260 260 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 255 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1050-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE CHECKED BY
J. ZANDIAN GRADE SEPARATION - BUCHANAN HALLOW RD NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE PROFILE SHEET 3 OF 3 **CH2M**HILL CONSTRUCTION SHEET NO. ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

BY CHK APP

DESCRIPTION

310 305 305 300 300 295 295 290 290 285 280 280 275 275 270 270 265 260 260 STA 26+25 CT1052-A 255 250 250 MATCH LINE S SEE DRAWING 245 245 400′ VC SSD 473′ OG 240 240 235 0.24% PROFILE +90.51 Elev 235. 230 230 SCALE HORIZ: 1"=50' VERT: 1"=5' 15 9 20 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO CT1051-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - BURCHELL RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **PROFILE CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3 REV DATE BY CHK APP DESCRIPTION

310 305 305 300 300 295 295 290 290 285 EB +24.59 Elev 272.26 280 280 275 275 270 270 — PG 800′ VC SSD 465′ 265 265 DS 45MPH 260 260 WATCH LINE STAND SEE THE STAND R ✓ 250 V 245 동원 MAT — oc 240 240 235 -HST TOR = 241.25 PROFILE 230 230 SCALE HORIZ: 1"=50' VERT: 1"=5' 30 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1052-A CHECKED BY
J. ZANDIAN BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - BURCHELL RD NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL **PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 ### OF ### BY CHK APP DESCRIPTION

310 305 305 300 300 295 295 290 290 285 280 280 275 275 270 270 265 265 260 260 255 255 250 250 245 400′ VC SSD 562′ — oc 240 240 235 -0.73% PROFILE 230 SCALE HORIZ: 1"=50' VERT: 1"=5' 45 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1053-A CHECKED BY
J. ZANDIAN BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - BURCHELL RD NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** PROFILE CONSTRUCTION SHEET NO. ### HIGH-SPEED RAIL AUTHORITY

SHEET 3 OF 3

DATE 04/29/2011

DESCRIPTION

BY CHK APP

295 290 290 285 285 280 280 275 275 270 270 265 265 260 260 255 250 245 +94.95 EVC Elev 235.50 240 235 400'VC SSD 367' 194.95 BVC MATCH LINE S SEE DRAWING 230 230 0.00% 225 220 220 PROFILE. <u>215</u> SCALE HORIZ: 1"=50' VERT: 1"=5' 210 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1054-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL PROFILE** CONSTRUCTION SHEET NO. ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3 BY CHK APP DESCRIPTION

295 290 290 285 285 280 280 275 275 270 270 265 265 260 260 255 250 250 245 245 240 240 235 235 230 230 400′ VC \$SD 444′ - OG 225 225 220 220 +72.40 Elev 221.63 PROFILE. 215 SCALE HORIZ: 1"=50' VERT: 1"=5' 210 35 8 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1056-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBUR. GIBSON RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL PROFILE** CONSTRUCTION HEET NO. ### OF ###

DATE 04/29/2011

DESCRIPTION

BY CHK APP

HIGH-SPEED RAIL AUTHORITY

SHEET 3 OF 3

270 265 265 260 260 255 250 250 245 240 240 235 235 230 230 225 220 220 215 210 S WATCH LING SEE DRAWING SEE DRAWING +41.01 BVC Elev 199.17 400' VC SSD 510' 205 200 200 0.48% 195 195 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 190 190 10 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1057-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - ARBOLEDA DR CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **PROFILE CH2M**HILL CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET OF 1 OF 3 ### OF ### BY CHK APP DESCRIPTION

270 265 265 260 260 255 250 245 240 240 235 235 230 230 800'VC SSD 465' DS 45MPH 225 S 220 220 20 20 215 215 220 215 210 210 205 200 200 195 → HST TOR = 203.70 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 190 185 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - ARBOLEDA DR PROFILE CT1058-A CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 ### OF ### BY CHK APP DESCRIPTION

270 265 265 260 260 255 250 245 240 240 235 235 230 230 225 220 220 215 210 210 400′ VC SSD 583′ 205 200 -0.81% 195 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 190 190 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1059-A CHECKED BY
J. ZANDIAN BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - ARBOLEDA DR PROFILE NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

BY CHK APP

DESCRIPTION

SHEET 3 OF 3

365 365 360 360 355 355 350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 310 MATCH LINE S SEE DRAWING PG 305 305 300 300 400′ VC SSD 492′ 295 295 _____ 290 290 PROFILE 285 285 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION 20 FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1100-A SUBMITTAL A1 MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - AVENUE 24 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

BY CHK APP

DESCRIPTION

SHEET 1 OF 3

OF ###

365 360 360 355 355 350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 315 310 310 305 305 +70.28 EVC Elev 307.21 400′VC SSD 458 300 300 - OG 295 295 290 PROFILE 285 SCALE HORIZ: 1"=50' VERT: 1"=10' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CR1102-A SUBMITTAL A1 MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - AVENUE 24 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** PROFILE

HIGH-SPEED RAIL AUTHORITY

SHEET 3 OF 3

CONSTRUCTION

DATE 04/29/2011

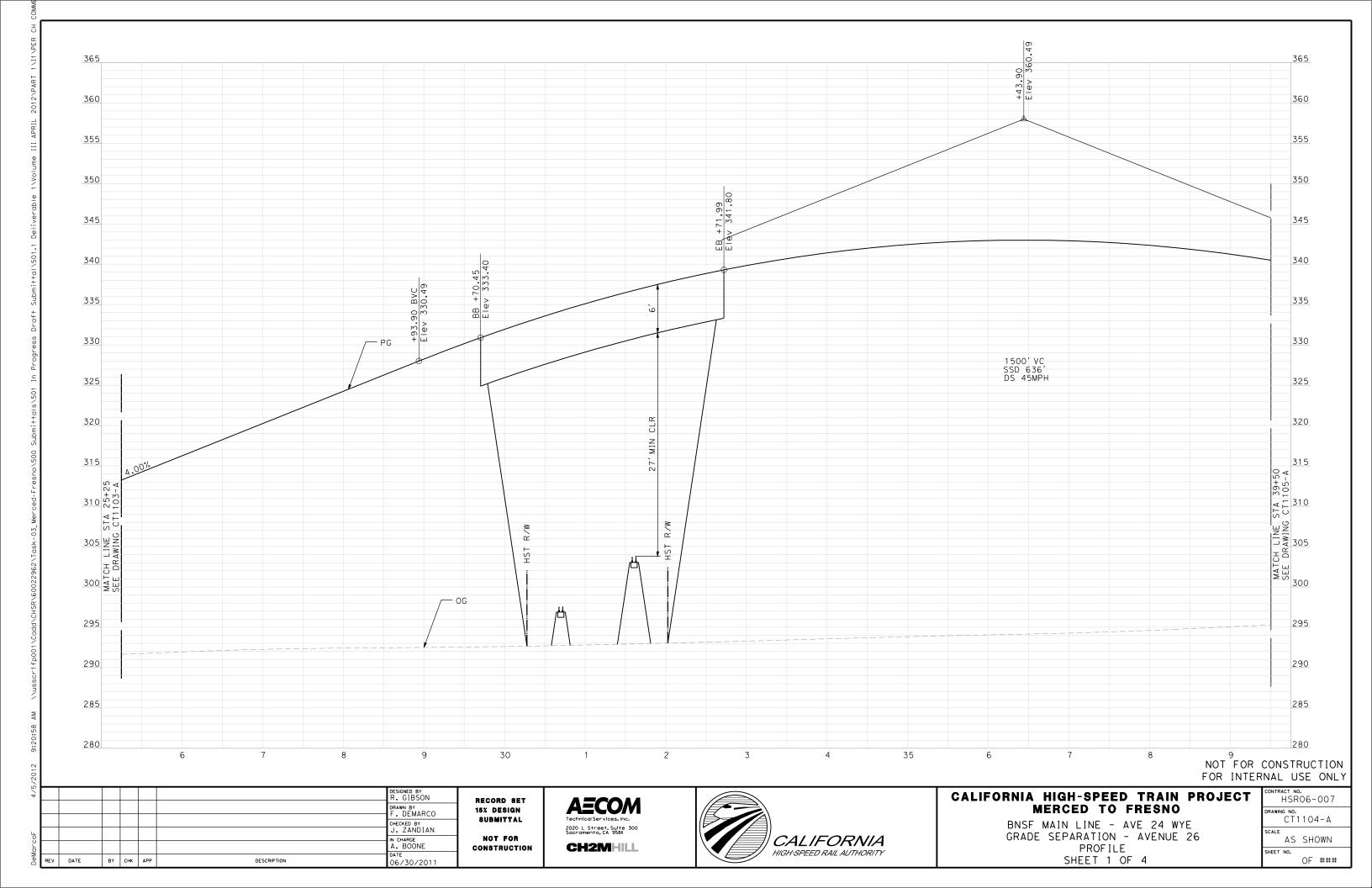
BY CHK APP

DESCRIPTION

365 365 360 360 355 355 350 350 345 345 340 340 335 335 330 330 325 325 320 315 310 MATCH LINE S SEE DRAWING 305 305 400' VC SSD 492' 300 300 295 295 0.36% 290 PROFILE 285 SCALE HORIZ: 1"=50' VERT: 1"=5' 280 NOT FOR CONSTRUCTION 15 20 FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1103-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 26 CHECKED BY
J. ZANDIAN CALIFORNIA NOT FOR AS SHOWN N CHARGE A. BOONE **CH2MHILL** PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 4 OF ###

BY CHK APP

DESCRIPTION



365 360 360 355 355 350 350 345 345 340 335 335 330 330 325 325 320 320 315 310 310 -0.11% 305 305 300 300 295 295 290 PROFILE 285 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1106-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 26 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 4 OF 4 ### OF ### BY CHK APP DESCRIPTION

345 345 340 340 335 335 330 330 325 325 320 320 315 315 310 310 305 300 300 +75.15 EVC Elev 288.12 - PG 295 STA 20+25 CT1108-A 290 MATCH LINE S SEE DRAWING +75.15 BVC Elev 279.10 400′VC SSD 515′ 285 - OG 280 280 + 75.15 E le < 280.12 275 275 270 270 PROFILE 265 265 SCALE HORIZ: 1"=50' VERT: 1"=5' 260 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1107-A BNSF WYE CONNECTION - AVE 24 WYE GRADE SEPARATION - ROAD 21 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3

BY CHK APP

DESCRIPTION

355 350 350 345 345 340 340 335 335 330 330 325 325 320 320 +31.03 EVC Elev 310.35 315 — PG 800' VC SSD 465' DS 45MPH 310 310 20+25 107-7-1 300 ₹ C MATCH SEE DRA R ∕W 290 — og 285 285 280 → HST TOR = 283.74 PROFILE 275 SCALE HORIZ: 1"=50' VERT: 1"=5' 270 25 30 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1108-A BNSF WYE CONNECTION - AVE 24 WYE GRADE SEPARATION - ROAD 21 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 ### OF ### REV DATE BY CHK APP DESCRIPTION

355 350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 310 310 305 305 300 300 +35.30 BVC Elev 290.18 295 — PG 290 400′ VC SSD 483′ 290 - og 285 285 -0.30% 280 280 PROFILE 275 SCALE HORIZ: 1"=50' VERT: 1"=5' 270 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1109-A BNSF WYE CONNECTION - AVE 24 WYE GRADE SEPARATION - ROAD 21 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

AS SHOWN SHEET NO. ### OF ###

PROFILE

SHEET 3 OF 3

350 345 345 340 340 335 335 330 330 325 320 320 315 315 310 305 300 +83,43 EVC Elev 288,61 STA 18 - PG 295 MATCH LINE S SEE DRAWING 290 400′ VC SSD 544′ 285 280 280 275 275 PROFILE 270 270 SCALE HORIZ: 1"=50' VERT: 1"=5' 265 10 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT-1110-A SUBMITTAL A1 MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 24 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN IN CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

REV DATE

BY CHK APP

DESCRIPTION

SHEET 1 OF 3

OF ###

350 345 345 340 340 335 335 330 330 325 EB +27.03 Elev 314.71 BB +36.58 Elev 314.26 +39,31 EVC Elev 310.85 320 320 — PG 315 315 800′VC SSD 465′ DS 45MPH 310 310 305 305 300 295 ₩ MATCH LINE S 285 280 280 275 275 -HST TOR = 282.88 →HST TOR = 281.89 PROFILE 270 SCALE HORIZ: 1"=50' VERT: 1"=5' 20 25 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1111-A SUBMITTAL A1 MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 24 PROFILE CHECKED BY
J. ZANDIAN CALIFORNIA NOT FOR AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 OF ### REV DATE BY CHK APP DESCRIPTION

350 345 345 340 340 335 335 330 330 325 320 320 315 315 310 310 305 305 300 300 295 295 400′ VC SSD 444′ 290 290 285 -0.00% 280 280 275 PROFILE 270 270 SCALE HORIZ: 1"=50' VERT: 1"=5' 265 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1112-A SUBMITTAL CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

A1 MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 24 PROFILE SHEET 3 OF 3

AS SHOWN OF ###

<u>345</u> 345 340 340 335 335 330 330 325 325 320 320 315 315 310 310 305 300 300 295 290 285 MAT(400′ VC SSD 544′ 280 280 275 275 270 270 PROFILE 265 265 SCALE HORIZ: 1"=50' VERT: 1"=5' 260 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN RAWING NO. CT1113-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 20 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3 BY CHK APP DESCRIPTION

<u>345</u> 340 340 335 335 330 330 325 325 320 320 315 315 310 310 305 305 300 300 295 290 290 285 285 400′ VC SSD 596′ 280 280 +79.13 Elev 269.27 - og 275 275 -0.86% 270 270 PROFILE 265 SCALE HORIZ: 1"=50' VERT: 1"=5' 260 35 9 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1115-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 20 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** PROFILE CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 3 OF 3 BY CHK APP DESCRIPTION

345 345 340 340 335 335 330 330 325 325 320 320 315 315 310 310 305 300 300 295 290 — PG MATCH LINE S SEE DRAWING 285 400' VC SSD 488' 280 280 275 275 270 +26.16 Elev 273.03 270 PROFILE 265 265 SCALE HORIZ: 1"=50' VERT: 1"=5' 260 20 3 25 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1116-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 20 1/2 PROFILE CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3

BY CHK APP

345 340 340 335 335 330 330 325 325 320 320 315 315 310 310 305 305 300 300 295 290 290 285 285 +32.17 EVC Elev 273.05 400′ VC SSD 456′ 280 280 275 275 ------0.10% 270 270 PROFILE 265 265 SCALE HORIZ: 1"=50' VERT: 1"=5' 260 50 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1118-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 20 1/2 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** PROFILE CONSTRUCTION

DATE 04/29/2011

DESCRIPTION

BY CHK APP

HIGH-SPEED RAIL AUTHORITY

SHEET NO. ### OF ###

SHEET 3 OF 3

340 340 335 335 330 330 325 325 320 320 315 310 310 305 305 300 300 295 290 285 CH LINE S 400' VC SSD 530' 280 280 – og 275 275 0.56% 270 270 265 PROFILE 260 260 SCALE HORIZ: 1"=50' VERT: 1"=5' 20 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO CT1119-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 24 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** PROFILE CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

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BY CHK APP

DESCRIPTION

SHEET 1 OF 3

350 345 345 340 340 335 335 330 330 325 320 320 315 315 310 310 800'VC SSD 465' DS 45MPH 305 305 21 + 21 1 - 25 A - 200 300 295 V C MATCH SEE DRA 285 280 280 — og 275 PROFILE 270 \rightarrow HST TOR = 278.81 SCALE HORIZ: 1"=50' VERT: 1"=5' 25 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1120-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 24 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** PROFILE CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 REV DATE BY CHK APP DESCRIPTION

340 340 335 335 330 330 325 325 320 320 315 310 310 305 305 300 300 295 290 290 285 285 400′ VC SSD 468′ – og 280 280 _-0.20% 275 +35.25 Elev 276.07 270 270 265 265 PROFILE 260 260 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1121-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 24 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE **CH2MHILL** PROFILE

HIGH-SPEED RAIL AUTHORITY

CONSTRUCTION

DATE 04/29/2011

DESCRIPTION

BY CHK APP

AS SHOWN SHEET NO. ### OF ###

SHEET 3 OF 3

340 340 335 335 330 330 325 325 320 320 315 310 310 305 305 300 300 295 295 290 290 285 285 400′ VC SSD 566 280 280 — o¢ 275 275 270 270 265 265 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 260 260 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1122-A BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 22 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE PROFILE SHEET 1 OF 3 **CH2M**HILL CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

OF

340 340 335 335 330 330 325 325 320 320 315 315 +47.78 EVC Elev 304.62 310 310 305 305 800′ VC SSD 465′ DS 45MPH 300 300 295 SLR R 295 STA 32+50 CT1124-A 290 \$ 5 ₩. 285 LINE S 285 DR ATCH LING SEE DR AND 280 280 WAA - OG 275 275 270 270 →HST TOR = 278.32 265 265 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 260 260 25 20 30 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1123-A BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 22 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 ### OF ### REV DATE BY CHK APP DESCRIPTION

340 340 335 335 330 330 325 325 320 320 315 310 310 305 305 300 300 295 295 290 290 285 285 400′ VC SSD 470′ 280 - OG 280 275 275 270 270 265 265 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 260 260 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

CH2MHILL

HIGH-SPEED RAIL AUTHORITY

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 22 PROFILE SHEET 3 OF 3

HSR06-007 CT1124-A AS SHOWN SHEET NO. ### OF ###

345 345 340 340 335 335 330 330 325 325 320 320 315 310 310 305 305 300 300 295 290 285 400′ VC SSD 494 280 280 0.38% 275 270 270 PROFILE 265 SCALE HORIZ: 1"=50' VERT: 1"=5' 260 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1125-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 23 1/2 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE PROFILE SHEET 1 OF 3 **CH2MHILL** CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

BY CHK APP

345 345 340 340 335 335 330 330 325 325 320 320 315 310 310 305 305 300 300 295 295 290 290 400'VC SSD 465' 285 285 - OG 280 280 -0.18% 275 270 270 PROFILE 265 SCALE HORIZ: 1"=50' VERT: 1"=5' 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1127-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 23 1/2 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE PROFILE SHEET 3 OF 3 **CH2M**HILL

HIGH-SPEED RAIL AUTHORITY

SHEET NO. ### OF ###

CONSTRUCTION

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BY CHK APP

295 290 290 285 285 280 280 275 275 270 270 265 265 260 260 255 250 245 240 240 400′ VC SSD 485′ - OG 235 0.32% 230 230 225 220 PROFILE 215 SCALE HORIZ: 1"=50' VERT: 1"=5' 210 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1128-A BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 16 CHECKED BY
J. ZANDIAN CALIFORNIA NOT FOR AS SHOWN IN CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

BY CHK APP

DESCRIPTION

SHEET 1 OF 3

295 290 290 285 280 275 275 270 270 265 265 260 260 255 250 245 245 240 240 400'VC SSD 444' — og 235 -0.00% 230 230 225 220 220 PROFILE 215 SCALE HORIZ: 1"=50' VERT: 1"=5' 210 35 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1130-A BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 16 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION ### OF ###

DATE 04/29/2011

BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

SHEET 3 OF 3

290 285 285 280 280 275 270 270 265 260 260 255 250 245 240 235 — PG CH LINE S 400′ VC SSD 496 230 230 MAT - OG 225 0.39% 220 220 215 PROFILE 210 SCALE HORIZ: 1"=50' VERT: 1"=5' 10 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1131-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 15 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN IN CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3

BY CHK APP

290 285 285 280 280 275 270 270 265 260 260 255 250 250 245 245 240 240 235 235 400′ VC SSD 486′ 230 230 225 -0.32% 220 220 215 PROFILE 210 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1133-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 15 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE

HIGH-SPEED RAIL AUTHORITY

SHEET NO. ### OF ###

SHEET 3 OF 3

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

280 280 275 275 270 270 265 265 260 260 255 250 250 245 245 240 235 230 CH LINE STA 17+25 DRAWING CT1135-A +27.80 BVC Elev 216.47 225 +85.60 Elev 215.96 400' VC SSD 490' OG 220 220 MAT(0.36% 215 210 210 205 PROFILE 200 200 SCALE HORIZ: 1"=50' VERT: 1"=5' 10 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN RAWING NO. CT1134-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 14 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3

REV DATE

BY CHK APP

280 275 275 270 270 265 260 260 255 250 250 245 245 240 240 235 230 230 400' VC SSD 493' 225 225 — og 220 220 -0.39% 215 +60.00 Elev 21 210 210 205 PROFILE 200 200 SCALE HORIZ: 1"=50' VERT: 1"=5' 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1136-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 14 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE

HIGH-SPEED RAIL AUTHORITY

SHEET NO. ###

SHEET 3 OF 3

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

275 270 270 265 265 260 260 255 250 245 245 240 240 235 230 225 220 400' VC SSD 542' 215 210 210 205 200 PROFILE 195 <u>195</u> SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1137-A BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 13 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

BY CHK APP

DESCRIPTION

SHEET 1 OF 3

285 280 280 275 270 265 265 260 260 255 250 250 245 240 800' VC SSD 465' DS 45MPH 240 235 S V - L S I 230 5 MATCH SEE DRA 220 215 — og 210 210 PROFILE 205 \rightarrow HST TOR = 212.12 SCALE HORIZ: 1"=50' VERT: 1"=5' 20 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1138-A BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 13 PROFILE CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 ### OF ### BY CHK APP DESCRIPTION

275 270 270 265 265 260 260 255 250 245 245 240 240 235 230 +00.15 BVC Elev 218.04 225 220 220 400′ VC SSD 555′ 215 — og 210 210 -0.70% 205 200 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 195 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1139-A CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 13 PROFILE SHEET 3 OF 3

AS SHOWN SHEET NO. ### OF ###

260 260 255 250 250 245 245 240 240 235 230 230 225 220 220 215 210 205 MATCH LINE S SEE DRAWING 200 200 195 195 +15.70 BVC Elev 184.56 400′ VC SSD 527′ 190 190 185 185 0.57% +15.70 Elev 185.71 **PROFILE** 180 180 SCALE HORIZ: 1"=50' VERT: 1"=5' 10 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1140-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 10 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3

BY CHK APP

250 245 245 240 240 235 230 230 225 220 215 215 210 205 200 200 195 195 400′ VC \$SD 471′ 190 190 185 185 -0.18% +72.30 Elev 185.02 180 180 175 **PROFILE** 170 170 SCALE HORIZ: 1"=50' VERT: 1"=5' 165 35 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1142-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 10 PROFILE SHEET 3 OF 3 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION ### OF ###

DATE 04/29/2011

DESCRIPTION

BY CHK APP

HIGH-SPEED RAIL AUTHORITY

245 245 240 240 235 235 230 230 225 225 220 220 215 210 210 205 200 195 190 190 400′ VC SSD 498′ 185 185 MAT(180 180 0.46% 175 175 170 170 PROFILE 165 <u>165</u> SCALE HORIZ: 1"=50' VERT: 1"=5' 160 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN RAWING NO. CT1143-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 9 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3

REV DATE

BY CHK APP

245 245 240 240 235 235 230 230 225 225 220 220 215 210 210 205 205 200 200 +02.48 BVC Elev 188.04 195 195 190 190 400' VC SSD 528' +02,48 Elev 179 185 185 — og 180 180 -0.47% 175 175 170 170 PROFILE 165 165 SCALE HORIZ: 1"=50' VERT: 1"=5' 160 35 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1145-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - ROAD 9 CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

SHEET 3 OF 3

OF ###

350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 400′ VC SSD 400 310 310 TA 23+00 11146-A 305 300 -0.50% MATCH SEE DR/ `-----290 290 285 285 280 280 PROFILE 275 SCALE HORIZ: 1"=50' VERT: 1"=5' 270 25 8 30 2 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1147-A BNSF MAINLINE - AVE 24 WYE GRADE SEPARATION - AVENUE 7 PROFILE SHEET 2 OF 3 SUBMITTAL CHECKED BY A. SILVER NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 OF ### REV DATE BY CHK APP DESCRIPTION

350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 310 310 TA 36+00 305 300 MATCH SEE DRA -0.50% 200' VC 290 290 285 285 280 280 PROFILE 275 SCALE HORIZ: 1"=50' VERT: 1"=5' 270 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO CT1148-A BNSF MAINLINE - AVE 24 WYE GRADE SEPARATION - AVENUE 7 PROFILE SHEET 3 OF 3 SUBMITTAL CHECKED BY A. SILVER NOT FOR CALIFORNIA AS SHOWN IN CHARGE A. BOONE **CH2M**HILL CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

OF ###

230 225 225 +72.68 Elev 213.23 220 220 215 210 210 205 200 200 195 195 600′ VC SSD 304′ — PG 190 190 185 185 300′ VC SSD 254 15' MIN CLR 180 300' VC SSD 254' 180 175 175 170 \rightarrow HST TOR = 165.64 170 165 160 160 155 PROFILE 150 150 SCALE HORIZ: 1"=50' VERT: 1"=5' 145 15 20 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO CT1149-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - G Street PROFILE SHEET 1 OF 1 SUBMITTAL CHECKED BY A. SILVER 2020 L Street, Suite 300 Sacramento, CA 95811 CALIFORNIA HIGH-SPEED RAIL AUTHORITY NOT FOR AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION DATE 06/30/2011 OF ### DATE BY CHK APP DESCRIPTION

350 350 345 345 340 340 335 335 330 330 325 320 320 315 315 310 305 300 300 STA 17+25 CT2101-A 295 295 290 MATCH LINE S SEE DRAWING 400' VC SSD 504' +20.40 Elev 278.37 285 285 280 280 0.44% 275 275 PROFILE 270 SCALE HORIZ: 1"=50' VERT: 1"=5' 10 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1200-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. WHITE ROCK RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY

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350 345 345 340 340 335 335 330 330 325 320 320 315 315 310 310 305 305 300 300 +01.29 BVC Elev 286.60 295 295 290 290 400' VC SSD 488' MAT 285 285 — OG 280 280 -0.34% 275 PROFILE 270 270 SCALE HORIZ: 1"=50' VERT: 1"=5' 265 35 8 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1202-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. WHITE ROCK RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL

HIGH-SPEED RAIL AUTHORITY

PROFILE

SHEET 3 OF 3

OF

CONSTRUCTION

DATE 04/29/2011

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320 320 315 315 310 305 305 300 300 295 295 290 290 285 280 280 MATCH LINE STA 18+25 SEE DRAWING CT1204-A 275 270 400' VC SSD 570' 265 265 260 260 0.76% 255 250 PROFILE 245 SCALE HORIZ: 1"=50' VERT: 1"=5' 240 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1203-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - LE GRAND RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL **PROFILE** CONSTRUCTION ### OF ###

DATE 04/29/2011

BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

335 330 330 325 325 320 320 315 310 310 305 305 300 300 295 290 290 285 285 280 280 275 PG +39.30 EVC Elev 263.41 400′ VC SSD 465′ 270 270 - OG 265 265 -0.17% 260 260 PROFILE 255 SCALE HORIZ: 1"=50' VERT: 1"=5' 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1205-A SUBMITTAL CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - LE GRAND RD **PROFILE** SHEET 3 OF 3

AS SHOWN ### OF ###

330 325 325 320 320 315 310 310 305 300 300 295 295 290 285 280 280 275 270 MATCH LINE S SEE DRAWING 400' VC SSD 553' 265 — OG 260 260 255 PROFILE 250 SCALE HORIZ: 1"=50' VERT: 1"=5' 245 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1206-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - FRESNO RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY

SHEET 1 OF 3

DATE 04/29/2011

BY CHK APP

330 325 325 320 320 315 310 310 305 300 300 295 295 290 290 285 285 280 280 275 275 270 270 -99.62 EVC 400' VC SSD 525' 265 265 260 260 255 PROFILE 250 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1208-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - FRESNO RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION **PROFILE** HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 3 OF 3

BY CHK APP

DESCRIPTION

OF

315 315 310 310 305 305 300 300 295 290 290 285 285 280 275 270 270 STA 17+25 CT1210-A 265 400' VC SSD 582' 260 — oc 255 250 245 245 PROFILE 240 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1209-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - CUNNINGHAM RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION **PROFILE**

DATE 04/29/2011

BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

OF

330 325 325 320 320 315 310 310 305 300 300 295 295 290 290 285 280 280 275 275 270 270 400' VC SSD 481' MAT 265 265 - OG 260 260 -0.29% 255 PROFILE 250 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1211-A SUBMITTAL CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - CUNNINGHAM RD **PROFILE** SHEET 3 OF 3

AS SHOWN SHEET NO. ### OF ###

310 305 305 300 300 295 295 290 290 285 280 280 275 275 270 265 260 260 STA 17+25 CT1213-A 255 250 MATCH LINE S SEE DRAWING 400′ VC SSD 509′ 245 - OG 240 240 0.47% 235 PROFILE 230 230 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1212-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - BURCHELL RD CHECKED BY
J. ZANDIAN CALIFORNIA NOT FOR AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION **PROFILE** ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

BY CHK APP

DESCRIPTION

295 295 290 290 285 285 280 280 275 270 270 265 265 260 260 255 250 250 245 245 240 240 +32.30 Elev 230.72 +00.00 EVC Elev 230.87 400′ VC SSD 453′ – og MAT(SEE 235 -0.06% 230 230 225 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 220 220 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1214-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - BURCHELL RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

DESCRIPTION

BY CHK APP

PROFILE SHEET 3 OF 3

AS SHOWN ### OF ###

325 320 320 315 315 310 310 305 305 300 300 295 295 290 290 285 280 +30.20 EVC Elev 268.40 MATCH LINE STA 19+25 SEE DRAWING CT1251-A 275 270 400′ VC SSD 565 265 265 260 260 0.74% 255 250 PROFILE 245 SCALE HORIZ: 1"=50' VERT: 1"=5' 240 9 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1250-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - LE GRAND RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE PROFILE SHEET 1 OF 3 **CH2M**HILL CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY

DATE 04/29/2011

BY CHK APP

325 320 320 315 315 310 310 305 305 300 300 295 295 290 290 285 +71.70 BVC Elev 271.26 280 280 275 275 31⁺ 400′ VC SSD 481′ 270 270 265 265 -0.29% 260 260 255 250 PROFILE 245 SCALE HORIZ: 1"=50' VERT: 1"=5' 240 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1252-A CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

DESCRIPTION

BY CHK APP

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - LE GRAND RD **PROFILE** SHEET 3 OF 3

AS SHOWN ### OF ###

330 330 325 325 320 320 315 310 310 305 305 300 300 295 295 290 285 280 280 275 PG 270 MATCH LINE S SEE DRAWING 400' VC SSD 537' 265 265 260 260 255 PROFILE 250 250 SCALE HORIZ: 1"=50' VERT: 1"=5' 245 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1253-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. FRESNO RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3 REV DATE BY CHK APP DESCRIPTION

330 325 325 320 320 315 310 310 305 305 300 300 295 295 290 290 285 285 280 280 275 275 270 270 400' VC SSD 530' 265 265 - OG 260 260 255 PROFILE 250 SCALE HORIZ: 1"=50' VERT: 1"=5' 245 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1255-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. FRESNO RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION **PROFILE**

DATE 04/29/2011

BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

OF

SHEET 3 OF 3

320 315 315 310 310 305 305 300 300 295 290 290 285 285 280 280 275 270 270 STA 19+25 CT1257-A 400'VC SSD 588' +66.99 BVC Elev 256.47 265 265 OG 260 260 255 250 245 PROFILE 240 SCALE HORIZ: 1"=50' VERT: 1"=5' 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1256-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. CUNNINGHAM RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011

BY CHK APP

DESCRIPTION

330 325 325 320 320 315 310 310 305 300 300 295 295 290 290 285 285 280 280 275 275 +73.00 BVC Elev 266.37 270 270 +73.00 EVC Elev 257.50 265 265 400′ VC SSD 503′ - OG 260 260 -0.43% 255 PROFILE 250 SCALE HORIZ: 1"=50' VERT: 1"=5' 245 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1258-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. CUNNINGHAM RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

CH2MHILL

HIGH-SPEED RAIL AUTHORITY

CONSTRUCTION

DATE 04/29/2011

DESCRIPTION

BY CHK APP

PROFILE SHEET 3 OF 3

AS SHOWN ### OF ###

285 285 280 280 275 270 270 265 265 260 260 255 255 250 245 — PG 240 240 STA 17+25 CT1260-A 235 400' VC SSD 534' 230 - OG 225 0.60% 220 220 215 PROFILE 210 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1259-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL **PROFILE** CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

HIGH-SPEED RAIL AUTHORITY

OF

290 285 285 280 280 275 270 270 265 265 260 260 255 250 245 245 +61.10 BVC Elev 235.11 240 240 235 235 400' VC SSD 508' 230 — OG 225 220 220 215 PROFILE 210 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1261-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

AS SHOWN ### OF ###

PROFILE

SHEET 3 OF 3

315 310 310 305 305 300 300 295 290 290 285 285 280 280 275 270 265 265 260 260 400' VC SSD 508' 255 OG-250 0.47% 245 245 240 240 PROFILE 235 SCALE HORIZ: 1"=50' VERT: 1"=5' 120 125 130 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1300-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. SANTA FE DR
PROFILE CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3

BY CHK APP

325 320 320 315 315 310 305 305 300 300 295 295 290 290 285 285 280 280 275 275 270 265 265 400' VC SSD 518' 260 260 OG. 255 250 PROFILE 245 SCALE HORIZ: 1"=50' VERT: 1"=5' 240 150 155 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1302-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. SANTA FE DR CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION **PROFILE** HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 3 OF 3

BY CHK APP

DESCRIPTION

OF

290 285 285 280 280 275 270 270 265 265 260 260 255 250 245 245 MATCH LINE STA 20+25 SEE DRAWING CT1304-A 240 240 235 +10.72 BVC Elev 223.74 230 225 0.60% 220 215 PROFILE 210 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION 10 15 FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1303-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION **PROFILE** ### OF ### HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 1 OF 3

BY CHK APP

290 285 285 280 280 275 270 270 265 265 260 260 255 255 250 250 245 245 +16.73 BVC Elev 233.18 240 240 235 +16.73 EVC Elev 224.28 400' VC SSD 505' 230 230 — og 225 +16.73 Elev 225.18 220 220 215 PROFILE 210 SCALE HORIZ: 1"=50' VERT: 1"=5' NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1305-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - PLAINSBURG RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

DESCRIPTION

BY CHK APP

AS SHOWN ### OF ###

PROFILE

SHEET 3 OF 3

265 265 260 260 255 250 245 245 240 240 235 230 230 225 220 215 STA 17+25 CT1307-A 210 400' VC SSD 467' 205 - OG MATCH LINE S SEE DRAWING 200 200 0.19% 195 195 190 190 PROFILE 185 SCALE HORIZ: 1"=50' VERT: 1"=5' 10 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1306-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ARBOLEDA RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION **PROFILE** SHEET NO. ### OF ### HIGH-SPEED RAIL AUTHORITY

SHEET 1 OF 3

DATE 04/29/2011

BY CHK APP

265 260 260 255 250 245 245 240 240 235 230 230 225 220 220 +29.50 BVC Elev 210.51 215 31+ +29.50 EVC Elev 201.53 400' VC SSD 510' 210 +16.40 Elev 200.63 205 -0.48% - OG 200 200 195 195 190 190 PROFILE 185 SCALE HORIZ: 1"=50' VERT: 1"=5' 35 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN SUBMITTAL CT1308-A BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ARBOLEDA RD CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

PROFILE

SHEET 3 OF 3

SHEET NO. ### OF ###

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

255 255 250 250 245 245 240 240 235 230 230 225 225 220 220 215 210 210 205 400′VC SSD 484′ S 200 NINE DIAMINE 195 200 195 0.31% 190 190 185 185 PROFILE 180 180 SCALE HORIZ: 1"=50' VERT: 1"=5' 175 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1309-A SUBMITTAL BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ORCHARD DR PROFILE CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL CONSTRUCTION ### OF ### HIGH-SPEED RAIL AUTHORITY

SHEET 1 OF 3

DATE 04/29/2011

BY CHK APP

DESCRIPTION

255 255 250 250 245 245 240 240 235 230 230 225 220 220 215 +28.10 BVC Elev 203.05 210 205 400′ VC SSD 521′ 200 H 200 — og 195 195 190 190 185 185 PROFILE 180 180 SCALE HORIZ: 1"=50' VERT: 1"=5' 35 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT1311-A SUBMITTAL CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA N CHARGE A. BOONE

HIGH-SPEED RAIL AUTHORITY

CH2MHILL

CONSTRUCTION

DATE 04/29/2011

BY CHK APP

DESCRIPTION

BNSF MERCED CONNECTION - AVE 24 WYE GRADE SEPARATION - S. ORCHARD DR PROFILE SHEET 3 OF 3

AS SHOWN SHEET NO. ### OF ###

SHT NO.	DWG NO.	DRAWING TITLE Line 3	DRAWING TITLE LINE 4	SHEET TITLE LINE 5	SHEET TITLE Line 6
		ROADWA	Y BRIDGE STRU	ICTURE PLAN	
			BNSF AVENUE	24	
				<u> </u>	
			GENERAL		
	SB0101	BNSF MAIN LINE	AVENUE 24	INDEX OF DRAWINGS	SHEET 1 OF 1
	SB0201	BNSF MAIN LINE	AVENUE 24	STRUCTURE INDEX MAP	SHEET 1 OF 3
	SB0202 SB0203	BNSF MAIN LINE BNSF MERCED CONNECTION	AVENUE 24 AVENUE 24	STRUCTURE INDEX MAP STRUCTURE INDEX MAP	SHEET 2 OF 3 SHEET 3 OF 3
	300203	DNSF MERCED CONNECTION	AVENUE 24	STRUCTURE INDEX MAP	SHEET 3 OF 3
			OVERHEAD BRIDGE	S	
	ST1001	BNSF MAIN LINE	AVENUE 21	AVENUE 9 OVERHEAD	PLANNING STUDY
	ST1001	BNSF MAIN LINE	AVENUE 21	AVENUE 10 OVERHEAD	PLANNING STUDY
	ST1003	BNSF MAIN LINE	AVENUE 21	AVENUE 11 OVERHEAD	PLANNING STUDY
	ST1004	BNSF MAIN LINE	AVENUE 21	AVENUE 12 OVERHEAD	PLANNING STUDY
	ST1005	BNSF MAIN LINE	AVENUE 21	AVENUE 13 OVERHEAD	PLANNING STUDY-SHEET 1 OF 2
		BNSF MAIN LINE	AVENUE 21	AVENUE 13 OVERHEAD	PLANNING STUDY-SHEET 2 OF 2
	ST1006	BNSF MAIN LINE	AVENUE 21	AVENUE 15 OVERHEAD	PLANNING STUDY
	ST1007 ST1009	BNSF MAIN LINE BNSF MAIN LINE	AVENUE 21 AVENUE 21	AVENUE 151/2 OVERHEAD AVENUE 17 OVERHEAD	PLANNING STUDY PLANNING STUDY
	ST1009	BNSF MAIN LINE	AVENUE 21	AVENUE 21 OVERHEAD	PLANNING STUDY
	ST1012	BNSF MAIN LINE	AVENUE 21	ROAD 24 OVERHEAD	PLANNING STUDY
	ST1016	BNSF MAIN LINE	AVENUE 21	SANTA FE DRIVE OVERHEAD	PLANNING STUDY
	ST1017	BNSF MERCED CONNECTION	AVENUE 21	BUCHANAN HOLLOW RD OVERHEAD	
	ST1018	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	BURCHELL AVENUE OVERHEAD	PLANNING STUDY
	ST1019	BNSF MERCED CONNECTION BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24 AVENUE 21	PLAINSBURG ROAD OVERHEAD ARBOLEDA DRIVE OVERHEAD	PLANNING STUDY PLANNING STUDY
	ST1020 ST1030	BNSF WYE CONNECTION	AVENUE 24	AVENUE 24 OVERHEAD	PLANNING STUDY
	ST1030	BNSF MAIN LINE	AVENUE 24	AVENUE 26 OVERHEAD	PLANNING STUDY
	ST1032	BNSF MAIN LINE	AVENUE 24	AVENUE 26 OVERHEAD	PLANNING STUDY
	ST1033	BNSF WYE CONNECTION	AVENUE 24	ROAD 21 OVERHEAD	PLANNING STUDY
	ST1034	BNSF WYE CONNECTION	AVENUE 24	AVENUE 24 OVERHEAD	PLANNING STUDY
	ST1035	BNSF MAIN LINE	AVENUE 24	AVENUE 20 OVERHEAD	PLANNING STUDY PLANNING STUDY
	ST1036	BNSF MAIN LINE BNSF MAIN LINE	AVENUE 24 AVENUE 24	AVENUE 201/2 OVERHEAD AVENUE 201/2 OVERHEAD	PLANNING STUDY
	ST1038	BNSF MAIN LINE	AVENUE 24	ROAD 24 OVERHEAD	PLANNING STUDY
	ST1039	BNSF MAIN LINE	AVENUE 24	ROAD 24 OVERHEAD	PLANNING STUDY
	ST1040	BNSF MAIN LINE	AVENUE 24	ROAD 22 OVERHEAD	PLANNING STUDY
	ST1041	BNSF MAIN LINE	AVENUE 24	AVENUE 231/2 OVERHEAD	PLANNING STUDY
	ST1042	BNSF MAIN LINE	AVENUE 24	ROAD 16 OVERHEAD	PLANNING STUDY
	ST1043 ST1044	BNSF MAIN LINE BNSF MAIN LINE	AVENUE 24 AVENUE 24	ROAD 15 OVERHEAD ROAD 14 OVERHEAD	PLANNING STUDY PLANNING STUDY
	ST1044	BNSF MAIN LINE	AVENUE 24	ROAD 13 OVERHEAD	PLANNING STUDY
	ST1046	BNSF MAIN LINE	AVENUE 24	ROAD 10 OVERHEAD	PLANNING STUDY
	ST1047	BNSF MAIN LINE	AVENUE 24	ROAD 9 OVERHEAD	PLANNING STUDY
	ST1070	BNSF MAIN LINE	AVENUE 21	AVENUE 7 OVERHEAD	PLANNING STUDY
	ST1180	UPRR/SR 99 MERCED CONNECTION	AVENUE 21	G STREET OVERHEAD	PLANNING STUDY

SHT NO.	DWG NO.	DRAWING TITLE Line 3	DRAWING TITLE LINE 4	SHEET TITLE LINE 5	SHEET TITLE Line 6
		DES	IGN OPTION A	LTERNATIVE 1	
	ST1050	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	WHITE ROCK ROAD OVERHEAD	PLANNING STUDY
	ST1051	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	LE GRAND ROAD OVERHEAD	PLANNING STUDY
	ST1052	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	FRESNO ROAD OVERHEAD	PLANNING STUDY
	ST1053	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	CUNNINGHAM ROAD OVERHEAD	PLANNING STUDY
_	ST1054	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	BURCHELL AVENUE OVERHEAD	PLANNING STUDY
		DES	IGN OPTION AI	LTERNATIVE 2	
	ST1055	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	LE GRAND ROAD OVERHEAD	PLANNING STUDY
		BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	FRESNO ROAD OVERHEAD	PLANNING STUDY
_	ST1056	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	CUNNINGHAM ROAD OVERHEAD	PLANNING STUDY
	ST1057	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	PLAINSBURG ROAD OVERHEAD	PLANNING STUDY
		DES	IGN OPTION AI	LTERNATIVE 3	
	ST1059	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	SANTA FE AVENUE OVERHEAD	PLANNING STUDY
	ST1060	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	PLAINSBURG ROAD OVERHEAD	PLANNING STUDY
	ST1061	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	SOUTH ARBOLEDA DRIVE OVERHEAD	PLANNING STUDY
	ST1062	BNSF MERCED CONNECTION	AVENUE 21/AVENUE 24	SOUTH ORCHARD DRIVE OVERHEAD	PLANNING STUDY
_					
				-	

						DESIGNED BY H. Lee
						DRAWN BY E.CISNEROS
2	02/24/12	HL	EC	AB		CHECKED BY J. RENTERIA
1	12/28/11		EC	AB		in charge A. Boone
REV	DATE	ВҮ	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

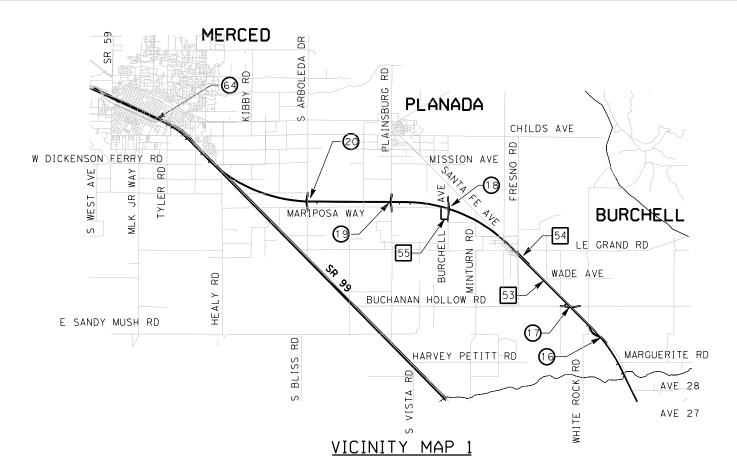
AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacromento, CA 958II CH2MHILL

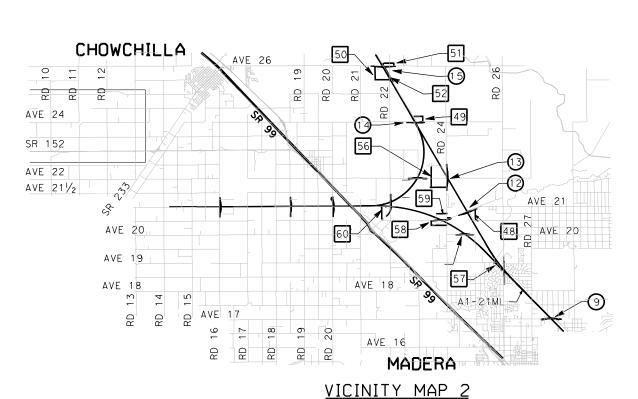


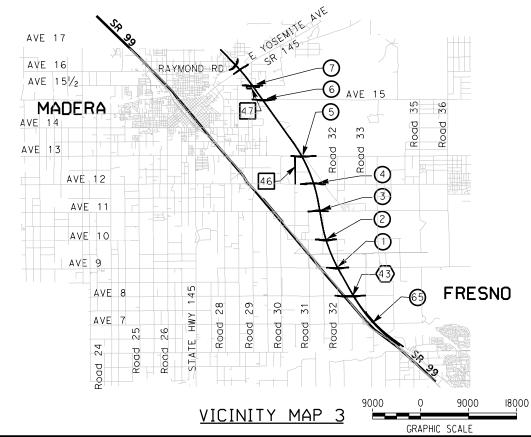
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE AVENUE 24 INDEX OF DRAWINGS SHEET 1 OF 1

1	CONTRACT NO.
	HSR06-007
	DRAWING NO.
	SB0101
	SCALE
	No scale
	SHEET NO.







LOCATION NUMBER LEGEND

- (X) INDICATES GRADE SEPARATION
- X INDICATES CALTRANS FACILITIES MODIFICATION
- X INDICATES LOCAL ROAD RELOCATION

						DESIGNED BY H. Lee	RE
						DRAWN BY E. CISNEROS	15%
2	02/24/12	HL	EC	AB		CHECKED BY J. ZANDIAN	SI
1	12/28/11		EC	AB		IN CHARGE A. Boone	CON
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	O4/29/2011	

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM.
Technical Services, Inc.
2020 L. Straet. Suite 300
Sacramento, CA 95811
CH2MHILL



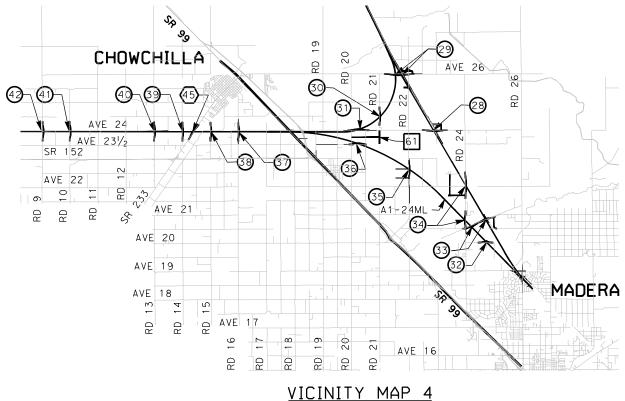
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO DRAWING NO. S.P. CONTRACT NO. H.S.R. DRAWING NO. S.P.

BNSF MAIN LINE
AVENUE 21
STRUCTURE INDEX MAP
SHEET 1 OF 3

HSR06-007						
DRAWING NO.						
S	SB0201					
SCALE						
As	shown					
SHEET NO.						
	OF					

3/30/2012	X			
3/3				
cisnerose				
c.s	REV	DA		

LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
28	AVENUE 24 OVERHEAD	ST1030	CT0100-A - CT0102-A
29	AVENUE 26 OVERHEAD	ST1031 & ST1032	CT0103-A - CT0106-A
30	ROAD 21 OVERHEAD	ST1033	CT0107-A - CT0109-A
31	AVENUE 24 OVERHEAD	ST1034	CT0110-A - CT0112-A
32	AVENUE 20 OVERHEAD	ST1035	CT0113-A - CT0115-A
33	AVENUE 201/2 OVERHEAD	ST1036 & ST1037	CT0116-A - CT0118-A
34)	ROAD 24 OVERHEAD	ST1038 & ST1039	CT0119-A - CT0121-A
35	ROAD 22 OVERHEAD	ST1040	CT0122-A - CT0124-A
36	AVENUE 231/2 OVERHEAD	ST1041	CT0125-A - CT0127-A
37	ROAD 16 OVERHEAD	ST1042	CT0128-A - CT0130-A
38	ROAD 15 OVERHEAD	ST1043	CT0131-A - CT0133-A
39	ROAD 14 OVERHEAD	ST1044	CT0134-A - CT0136-A
40	ROAD 13 OVERHEAD	ST1045	CT0137-A - CT0139-A
41)	ROAD 10 OVERHEAD	ST1046	CT0140-A - CT0142-A
42	ROAD 9 OVERHEAD	ST1047	CT0143-A - CT0145-A
45	CALTRANS - SR 233		
61	LOCAL ROAD - ROAD XXXXX		



LOCATION NUMBER LEGEND

X - INDICATES GRADE SEPARATION

BY CHK APP

- INDICATES CALTRANS FACILITIES MODIFICATION

DESCRIPTION

- INDICATES LOCAL ROAD RELOCATION

DESIGNED BY H. Lee	RECORD SET
DRAWN BY E. CISNEROS	15% DESIGN
CHECKED BY J. ZANDIAN	SUBMITTAL
in charge A. Boone	NOT FOR CONSTRUCTION
DATE 04/29/2011	

DESIGNED BY H. Lee

04/29/2011





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE

AVENUE 24 STRUCTURE INDEX MAP SHEET 2 OF 3

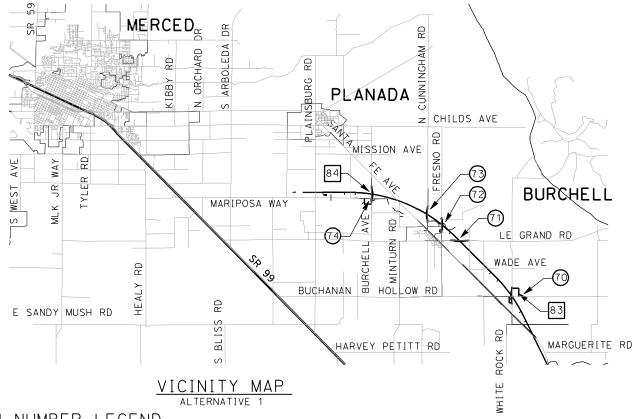
GRAPH	HC SCALE
7	CONTRACT NO.
CT	HSR06-007
	DRAWING NO.
	SB0202
	SCALE
	As shown
	SHEET NO.

OF

9000

[X				
REV	DA				

LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
70	WHITE ROCK ROAD OVERHEAD	ST1050	CT0200-A - CT0202-A
71)	LE GRAND ROAD OVERHEAD	ST1051	CT0203-A - CT0205-A
72)	FRESNO ROAD OVERHEAD	ST1052	CT0206-A - CT0208-A
73	CUNNINGHAM ROAD OVERHEAD	ST1053	CT0209-A - CT0211-A
74	BURCHELL AVENUE OVERHEAD	ST1054	CT0212-A - CT0214-A
75	LE GRAND ROAD OVERHEAD	ST1055	CT0250-A - CT0252-A
76	FRESNO ROAD OVERHEAD	ST1056	CT0253-A - CT0255-A
(1)	CUNNINGHAM ROAD OVERHEAD	ST1057	CT0256-A - CT0258-A
78	PLAINSBURG ROAD OVERHEAD	ST1058	CT0259-A - CT0261-A
79	SANTA FE AVENUE OVERHEAD	ST1059	CT0300-A - CT0302-A
80	PLAINSBURG ROAD OVERHEAD	ST1060	CT0303-A - CT0305-A
81)	SOUTH ARBOLEDA ROAD OVERHEAD	ST1061	CT0306-A - CT0308-A
82	SOUTH ORCHARD DRIVE OVERHEAD	ST1062	CT0309-A - CT0311-A
83	LOCAL ROAD - WHITE ROCK		
84	LOCAL ROAD - BURCHELL		
85	LOCAL ROAD - FRESNO		
86	LOCAL ROAD - SANTA FE		



LOCATION NUMBER LEGEND

- X INDICATES GRADE SEPARATION
- X INDICATES CALTRANS FACILITIES MODIFICATION
- INDICATES LOCAL ROAD RELOCATION



RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL**



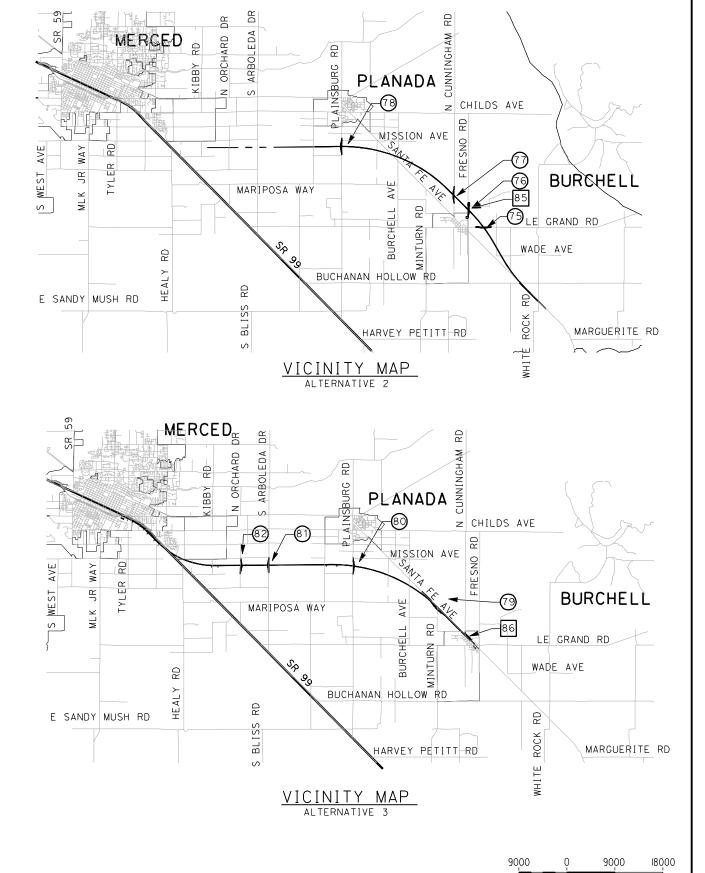


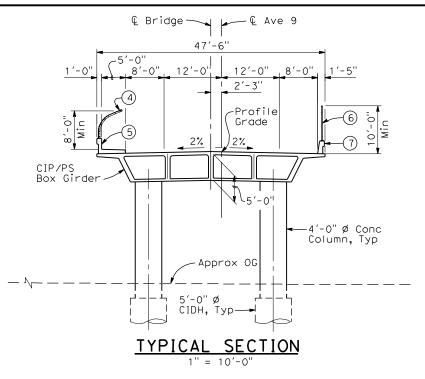
BNSF MERCED CONNECTION AVENUE 24 STRUCTURE INDEX MAP SHEET 3 OF 3

CONTRACT NO.	
HSR06-007	
DRAWING NO.	
SB0203	
SCALE	
As shown	
A	

OF

GRAPHIC SCALE





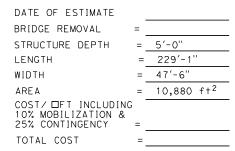
NOTES:

- 1 Paint "Bridge No. XX-XX"
- Paint "Avenue 9 OH"
- Structure Approach Slab Type N (30S)
- Chain Link Railing Type 3
- Concrete Barrier Type 26 (Mod)
- Chain Link Railing Type 7 (Mod)
- Concrete Barrier Type 732
- Bearing of Avenue 9 to be determined.
- 9. Existing underground and overhead utilities to be determined.

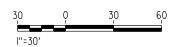
LEGEND:

Direction of traffic

Point of minimum vertical clearance



LOCATION 1



SHEET NO.

						DESIGNED BY H. LEE	
						DRAWN BY E. CISNEROS	RECORD SET
						CHECKED BY	SUBMITTAL
						J. RENTERIA IN CHARGE	NOT FOR
						A. BOONE	CONSTRUCTION
RE'	DATE	BY	СНК	APP	DESCRIPTION	04/29/2011	

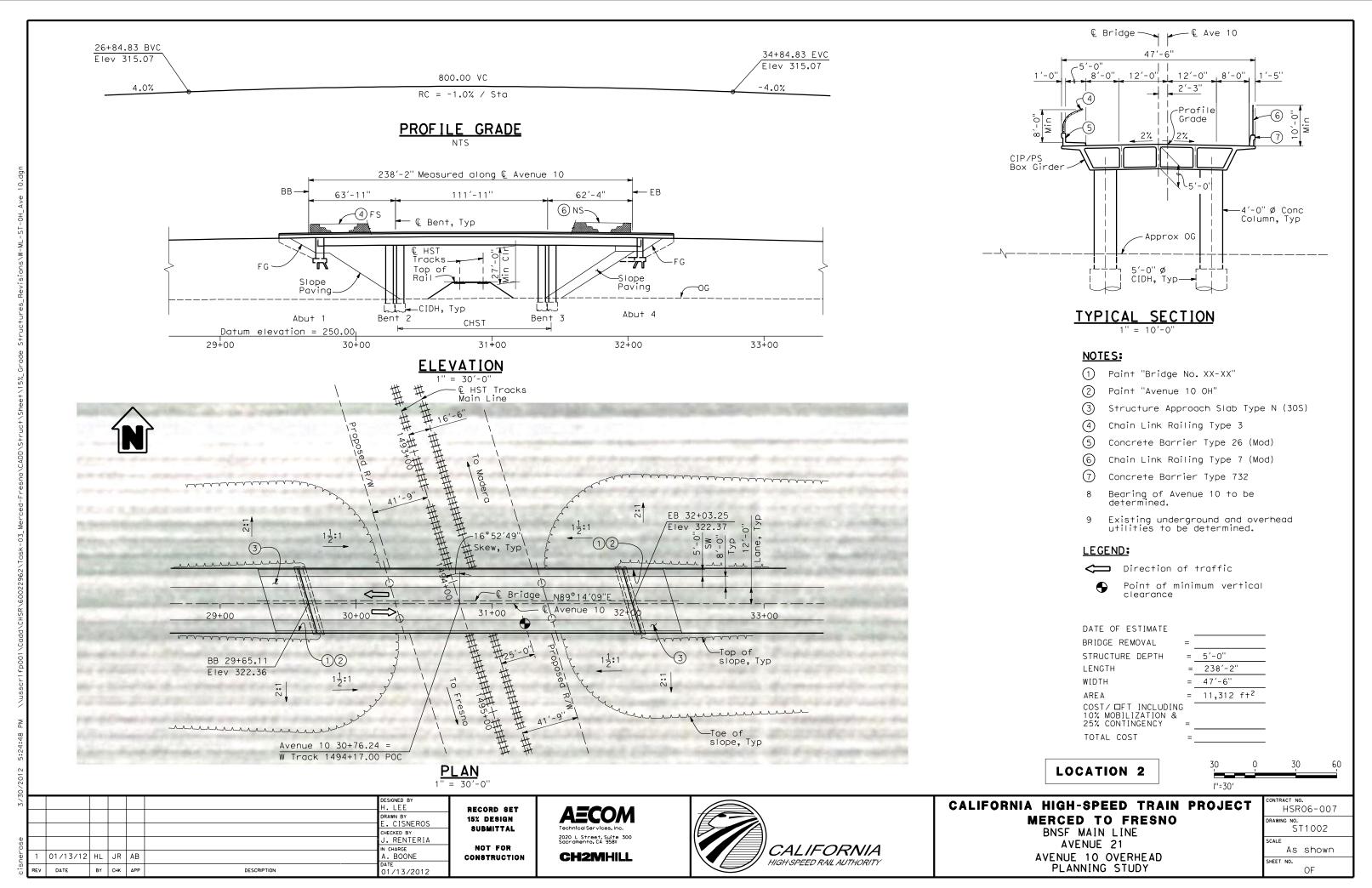
2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

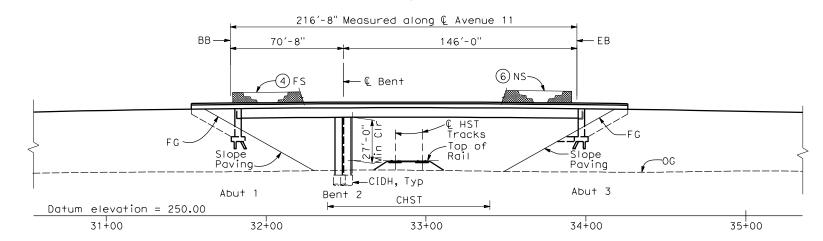


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

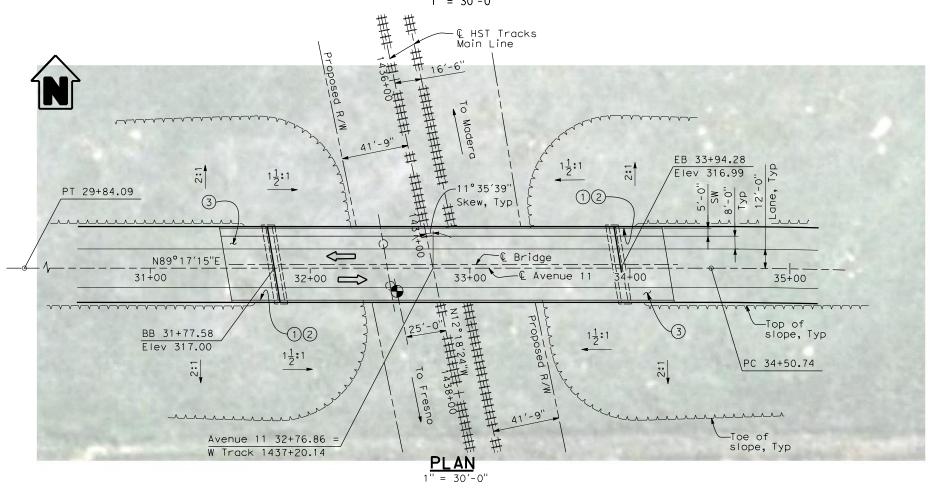
BNSF MAIN LINE AVENUE 21 AVENUE 9 OVERHEAD PLANNING STUDY

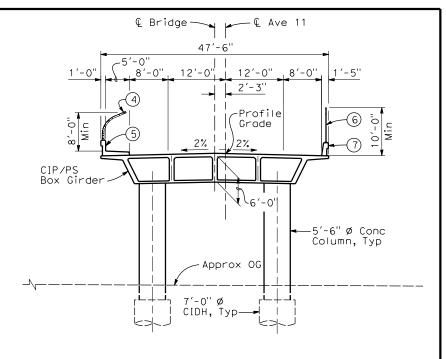
CONTRACT NO.
HSR06-007
DRAWING NO.
ST1001
SCALE
As shown





ELEVATION1" = 30'-0"





TYPICAL SECTION

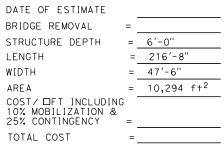
NOTES:

- 1) Paint "Bridge No. XX-XX"
- (2) Paint "Avenue 11 OH"
- 3) Structure Approach Slab Type N (30S)
- 4) Chain Link Railing Type 3
- (5) Concrete Barrier Type 26 (Mod)
- 6) Chain Link Railing Type 7 (Mod)
- 7) Concrete Barrier Type 732
- 8 Bearing of Avenue 11 to be determined.
- Existing underground and overhead utilities to be determined.

LEGEND:

Direction of traffic

Point of minimum vertical clearance



LOCATION 3



						DESIGNED BY H. LEE	
						DRAWN BY E. CISNEROS	
						CHECKED BY J. RENTERIA	
1	01/13/12	HL	JR	AB		IN CHARGE A. BOONE	
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 01/13/2012	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

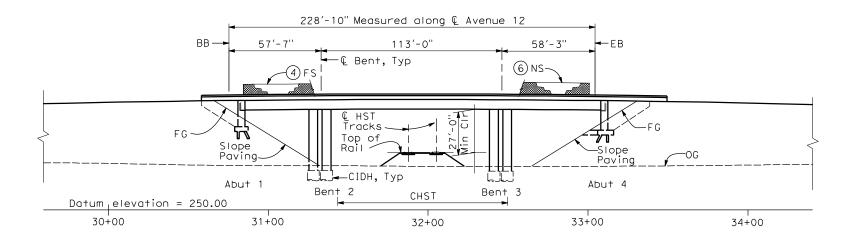
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



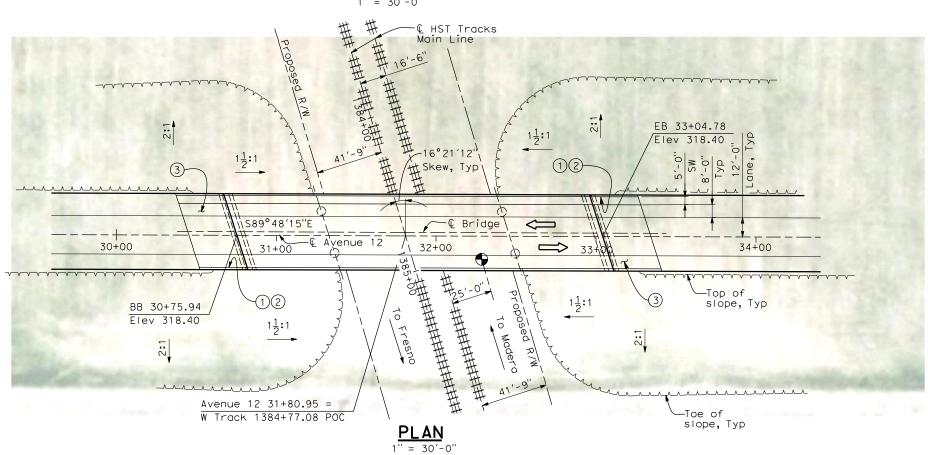
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE

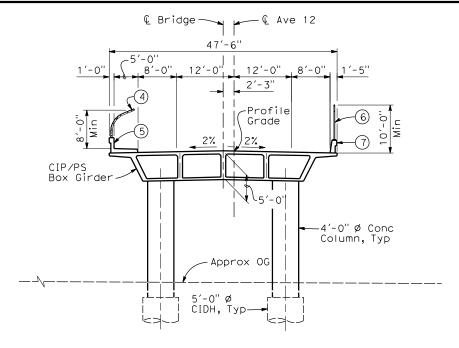
BNSF MAIN LINE AVENUE 21 AVENUE 11 OVERHEAD PLANNING STUDY

	ACT NO HSR	06-007
DRAWIN		Г1003
	J	11003
SCALE	۸ -	
	AS	shown
SHEET	NO.	
		OF



ELEVATION





TYPICAL SECTION

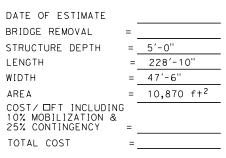
NOTES:

- 1 Paint "Bridge No. XX-XX"
- (2) Paint "Avenue 12 OH"
- 3) Structure Approach Slab Type N (30S)
- 4) Chain Link Railing Type 3
- (5) Concrete Barrier Type 26 (Mod)
- 6) Chain Link Railing Type 7 (Mod)
- 7) Concrete Barrier Type 732
- 8 Bearing of Avenue 12 to be determined.
- 9 Existing underground and overhead utilities to be determined.

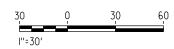
LEGEND:

Direction of traffic

Point of minimum vertical clearance



LOCATION 4



						DESIGNED BY H, LEE	
						DRAWN BY	
						CHECKED BY J. RENTERIA	
1	01/13/12	HL	JR	AB		IN CHARGE A. BOONE] c
REV	DATE	ВҮ	СНК	APP	DESCRIPTION	DATE 01/13/2012	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

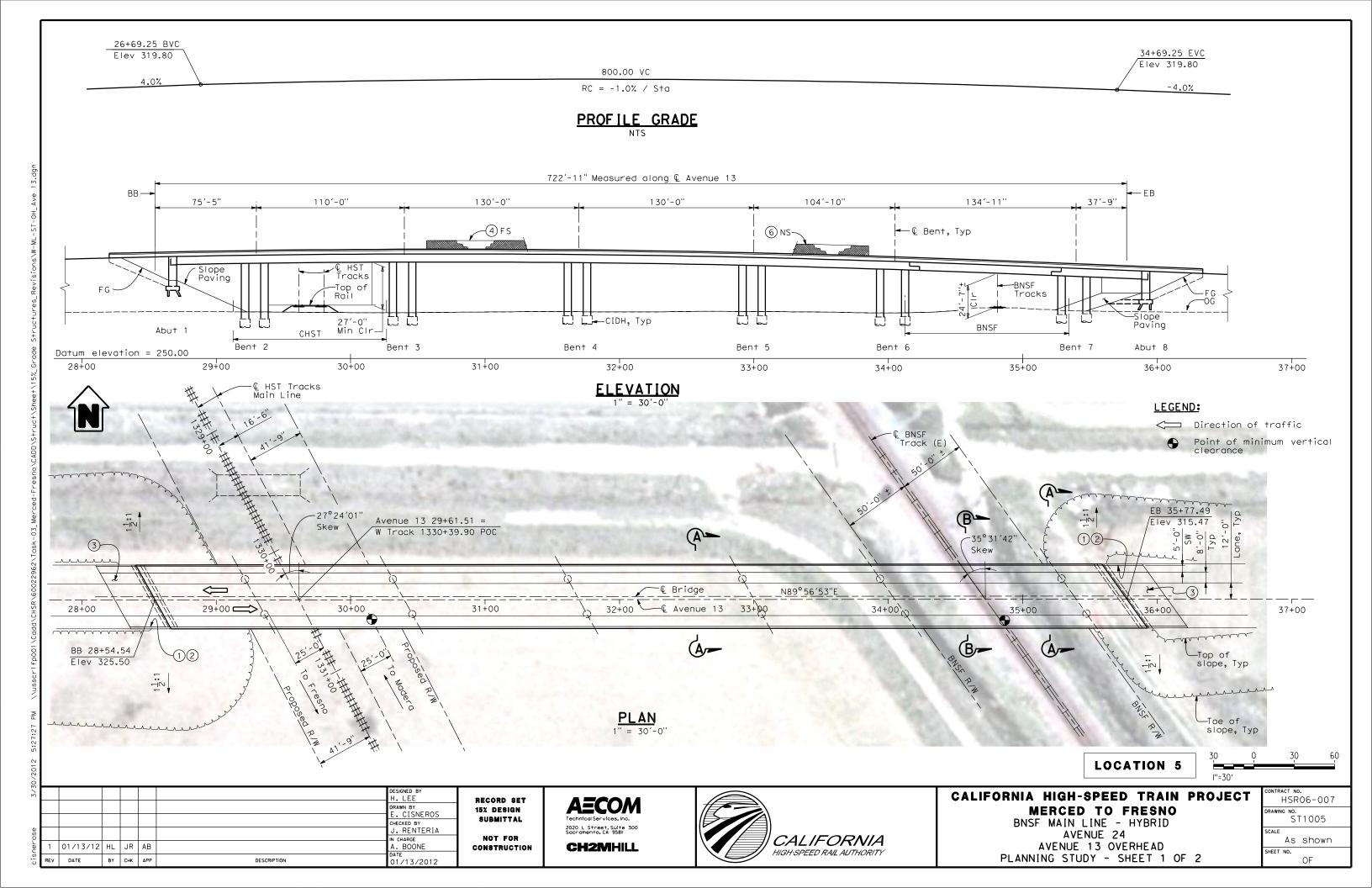
AECOM Technical Services, Inc. 2020 L. Street, Suite 300 Sacromento, CA 958II

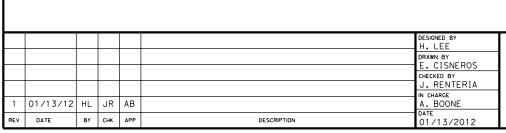


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE

BNSF MAIN LINE AVENUE 21 AVENUE 12 OVERHEAD PLANNING STUDY

CONTRACT NO. HSR06-007
DRAWING NO. ST1004
SCALE
As shown
SHEET NO.
OE.





© Bridge Ave 13

12'-0"

-Profile

Grade

6'-0"

Approx OG

7'-0" Ø CIDH, Typ—

SECTION A-A

1"=10'-0"

−5′-6" Ø Conc Column, Typ

2'-3"

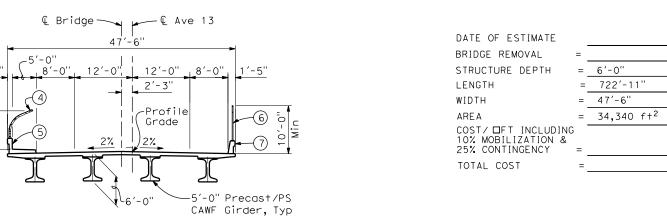
47'-6"

CIP/PS Box Girder





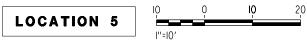




SECTION B-B 1"=10'-0"

NOTES:

- (1) Paint "Bridge No. XX-XX"
- (2) Paint "Avenue 13 OH"
- 3 Structure Approach Slab Type N (30S)
- Chain Link Railing Type 3
- Concrete Barrier Type 26 (Mod)
- **(6)** Chain Link Railing Type 7 (Mod)
- Concrete Barrier Type 732
- Bearing of Avenue 13 to be determined.
- 9. Existing underground and overhead utilities to be determined.

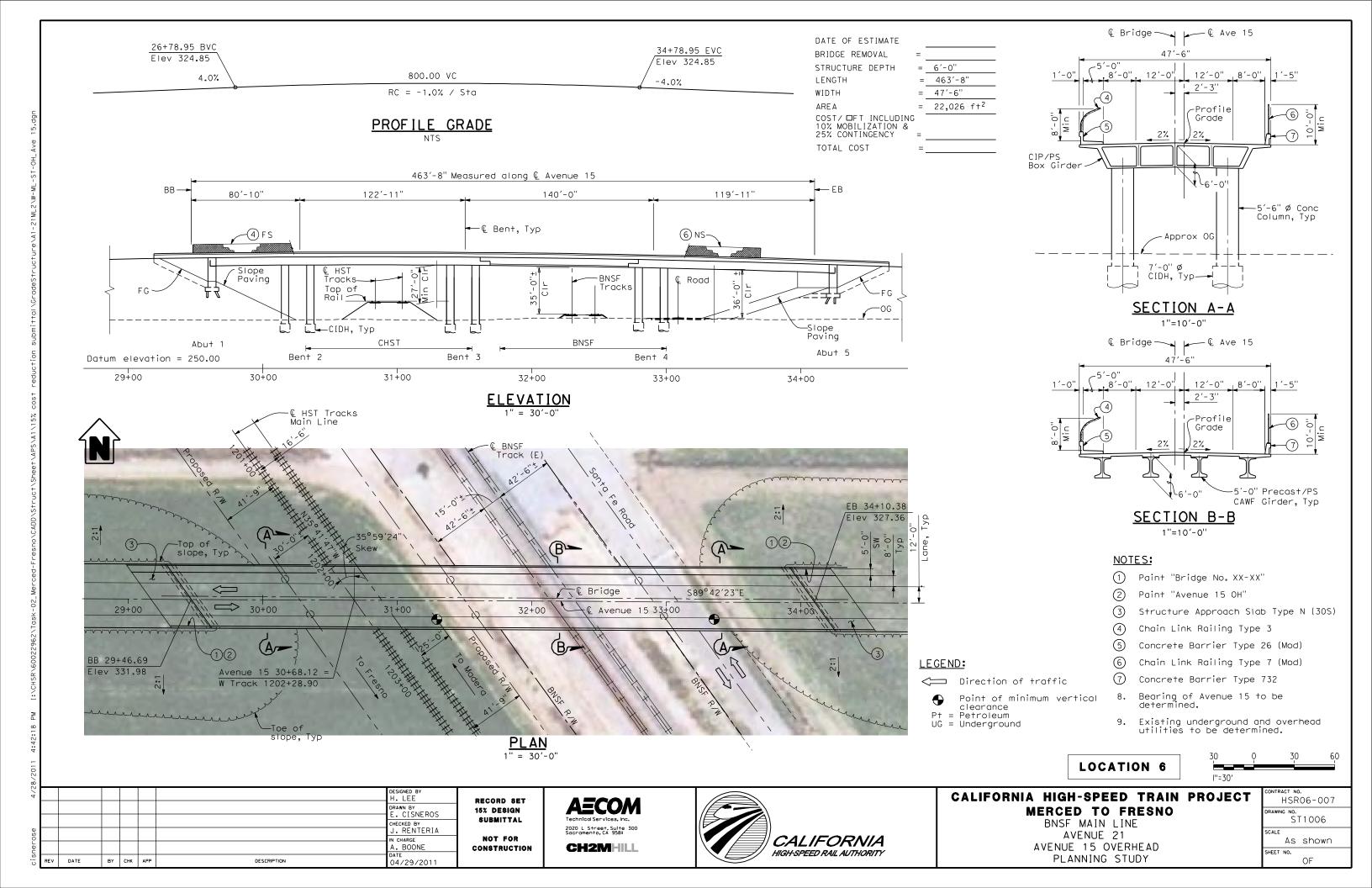


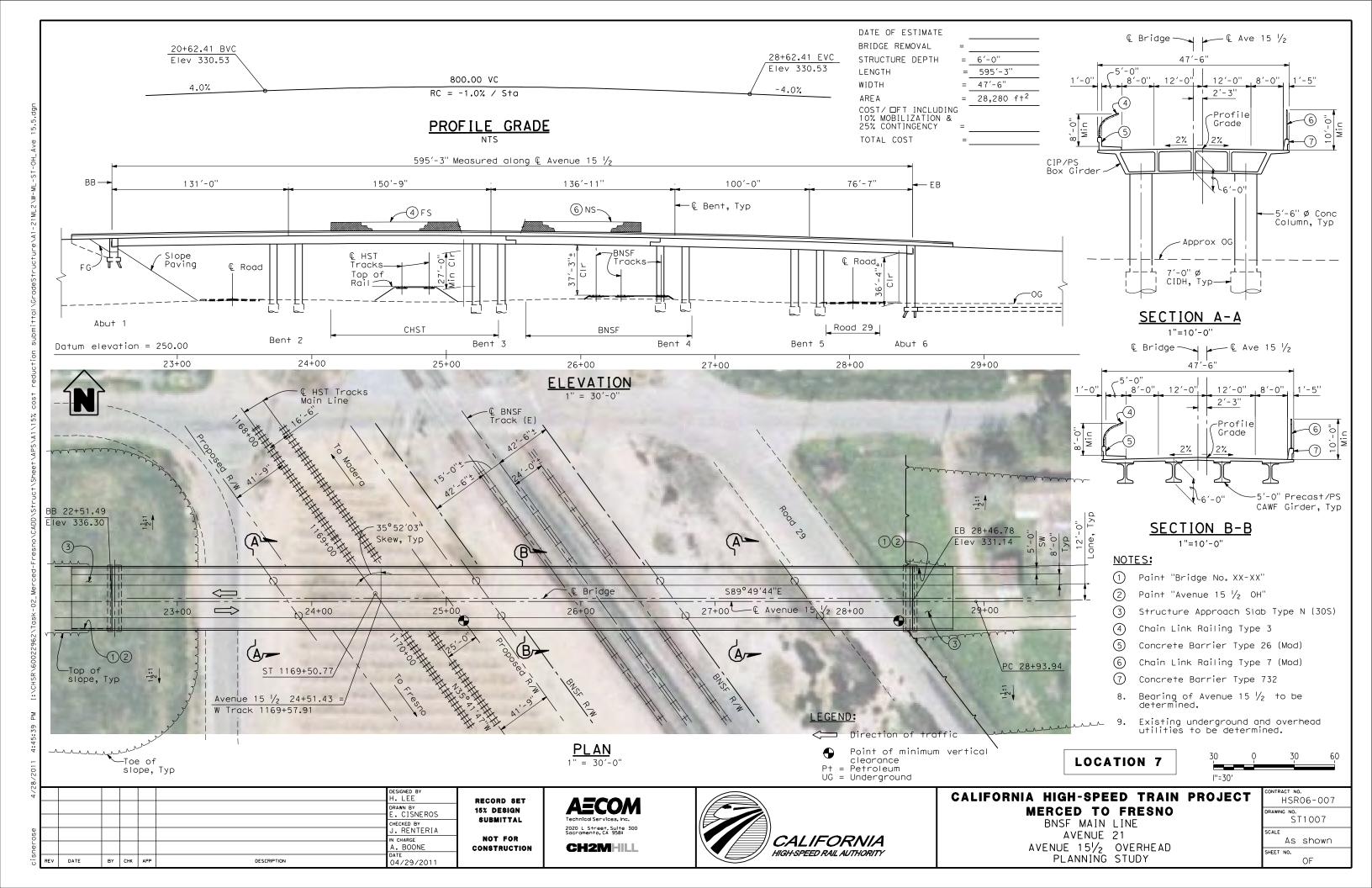
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE

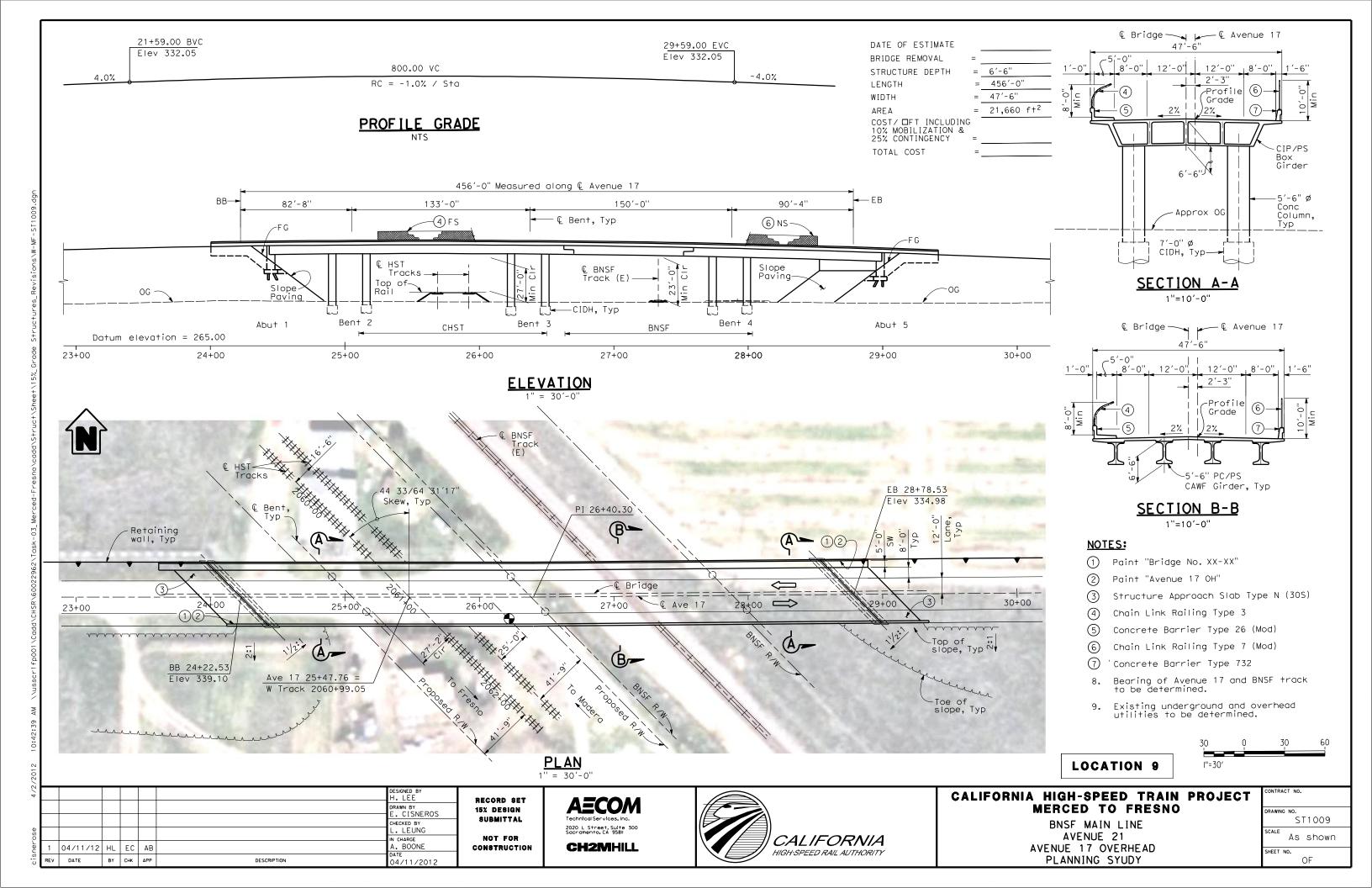
AVENUE 21 AVENUE 13 OVERHEAD PLANNING STUDY - SHEET 2 OF 2

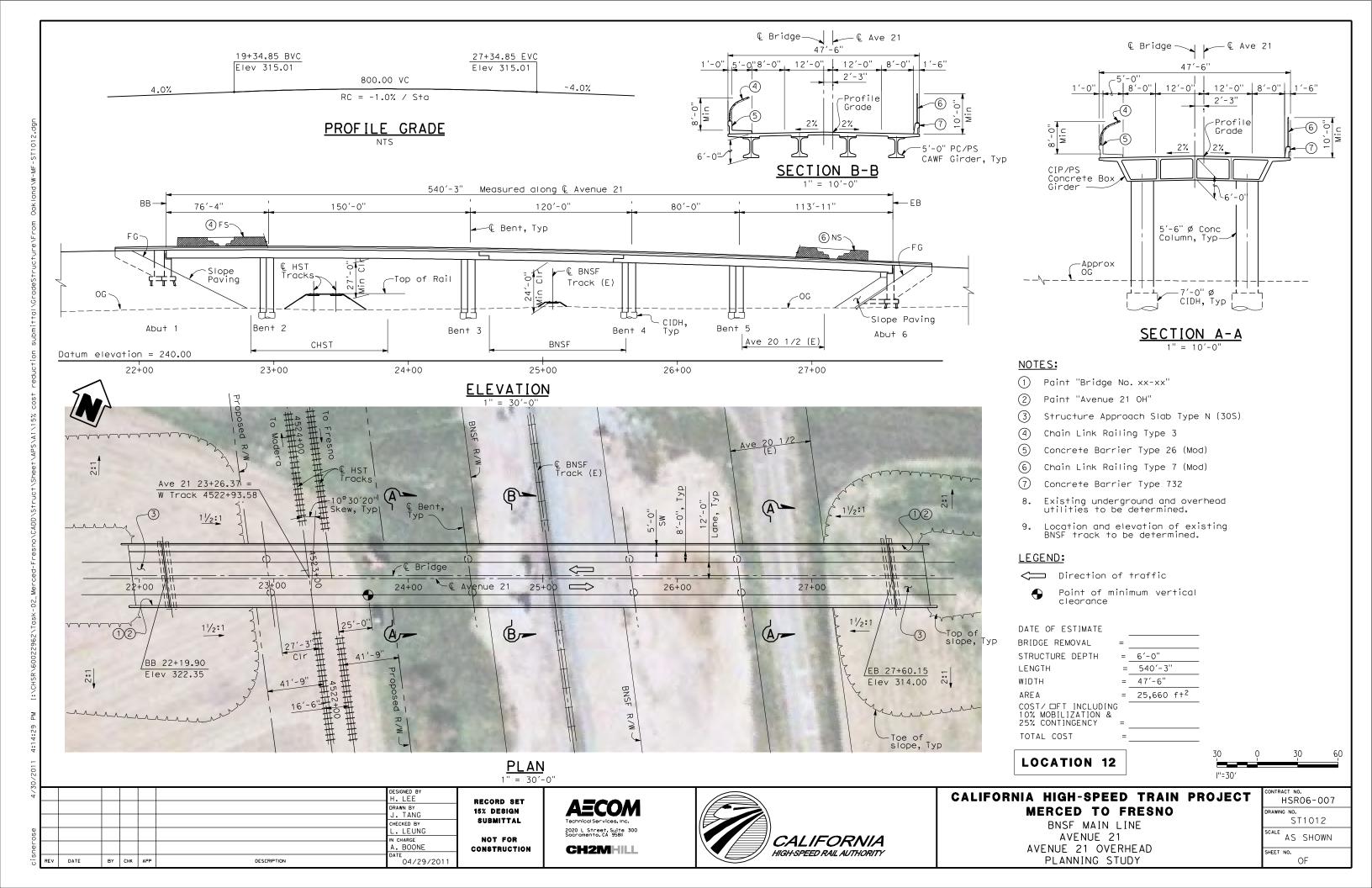
CONTRACT NO.
HSR06-007
DRAWING NO. ST1005A
SCALE
As shown

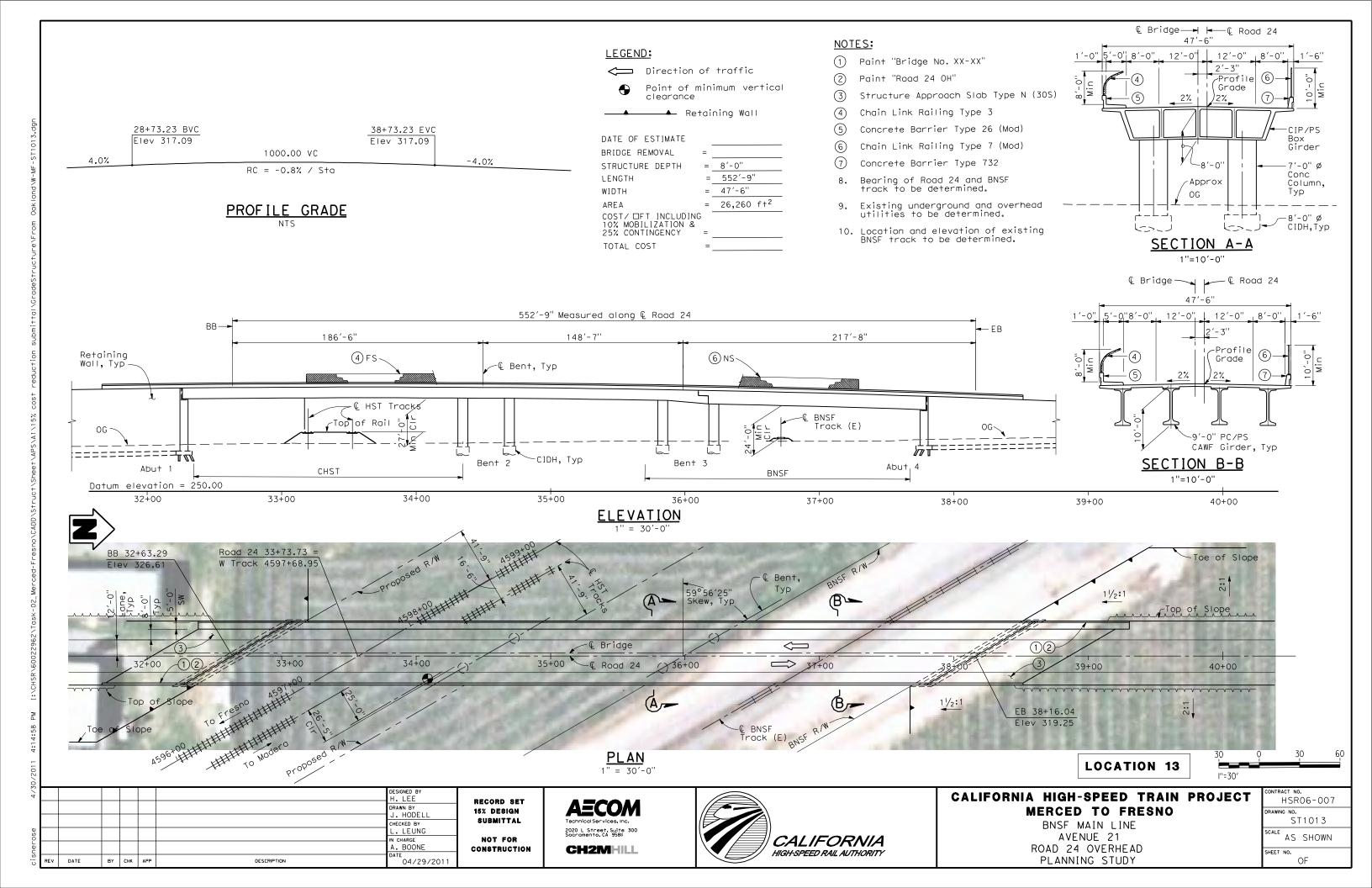
OF

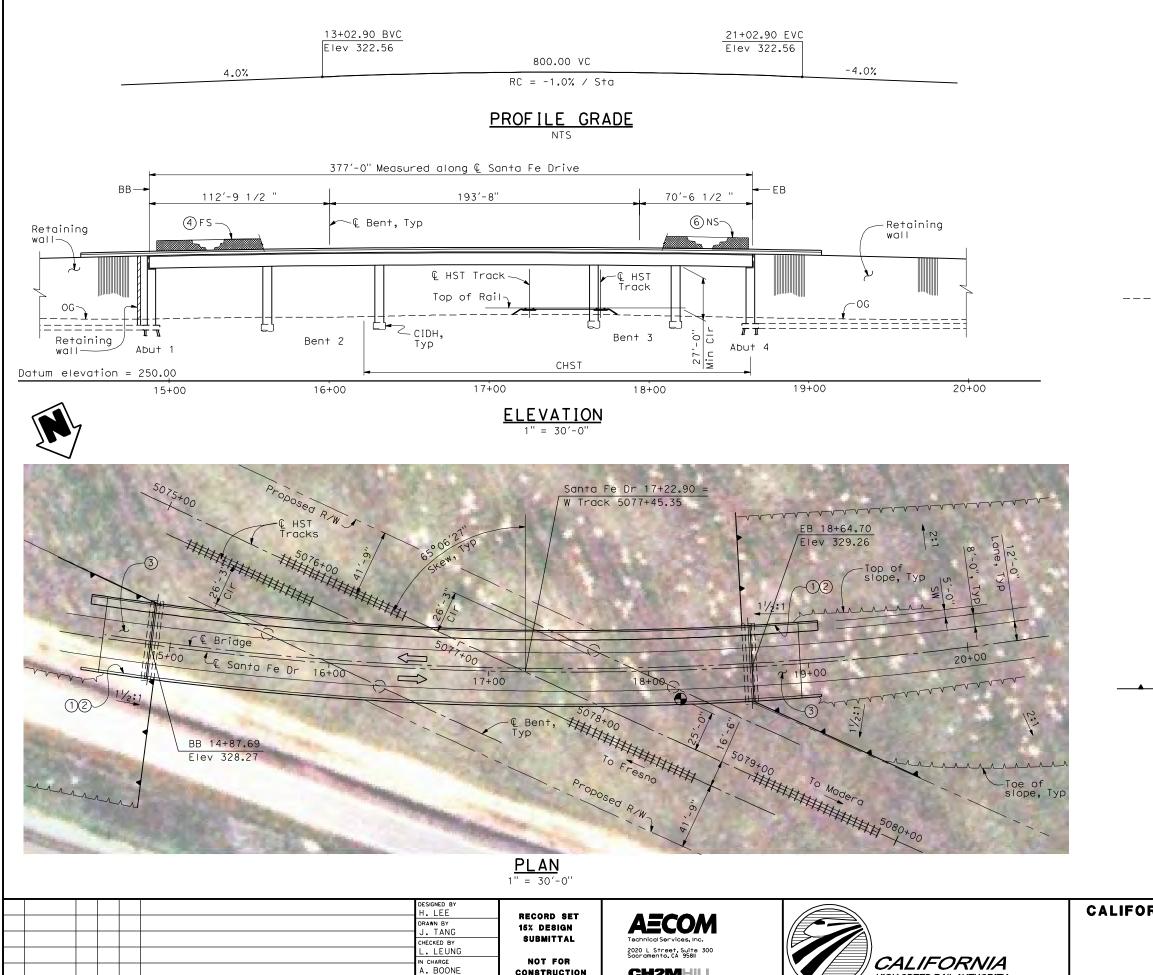












CONSTRUCTION

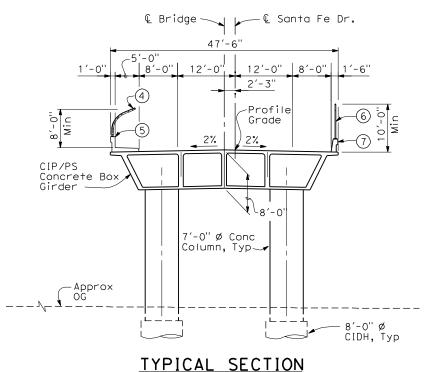
04/29/2011

BY CHK APP

DESCRIPTION

CH2MHILL

HIGH-SPEED RAIL AUTHORITY



NOTES:

- 1) Paint "Bridge No. xx-xx"
- Paint "Santa Fe Drive OH"
- Structure Approach Slab Type N (30S)
- Chain Link Railing Type 3
- Concrete Barrier Type 26 (Mod)
- Chain Link Railing Type 7 (Mod)
- Concrete Barrier Type 732
- Existing underground and overhead utilities to be determined.

LEGEND:

Direction of traffic

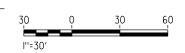
Point of minimum vertical clearance

Retaining wall

TOTAL COST

DATE OF ESTIMATE BRIDGE REMOVAL 8'-0" LENGTH 377'-0" WIDTH 47'-6" AREA 17,910 f+² COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY

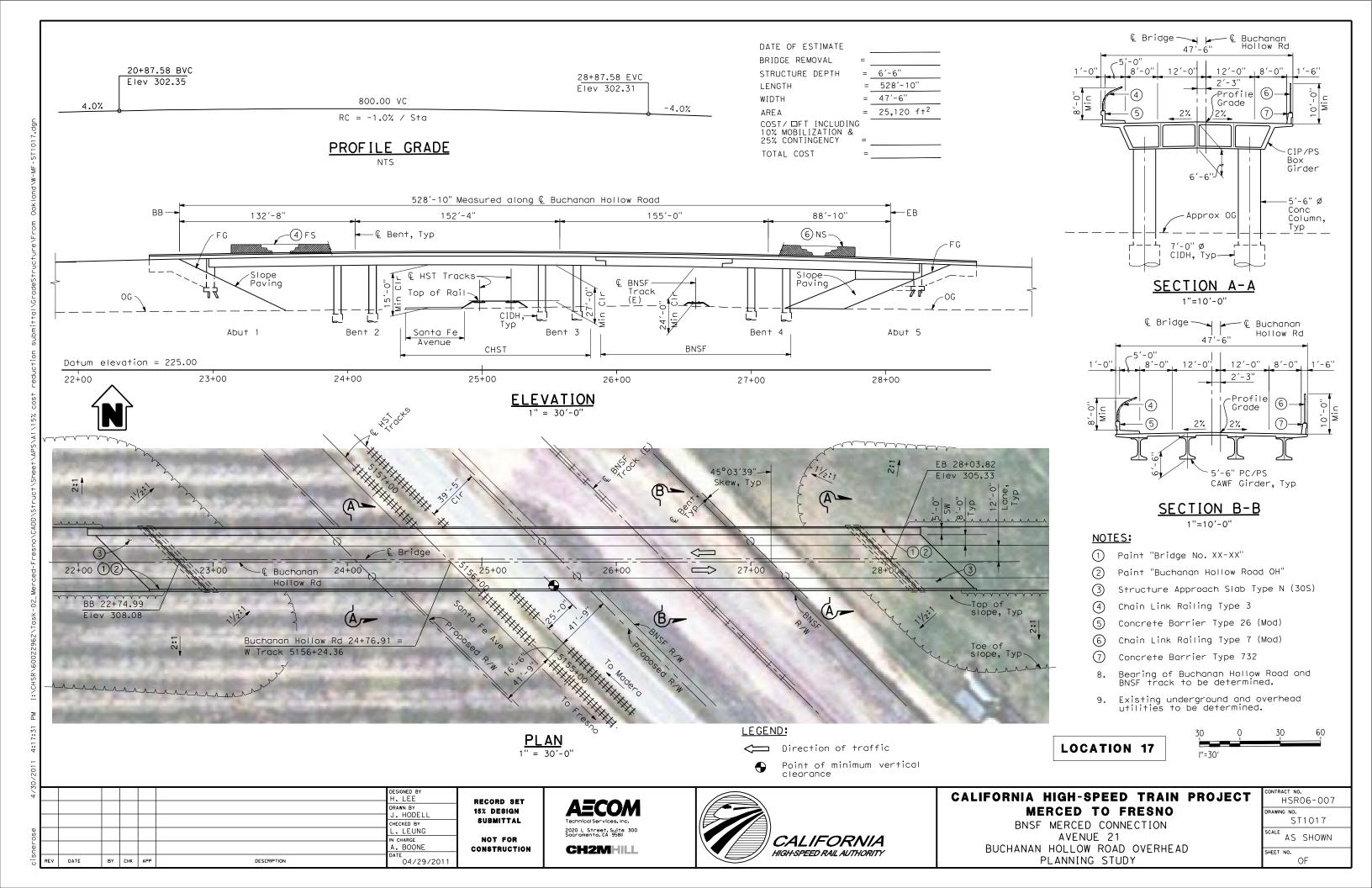
LOCATION 16

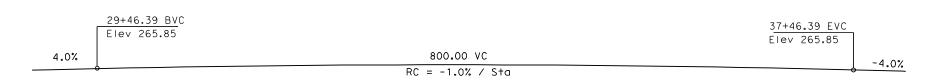


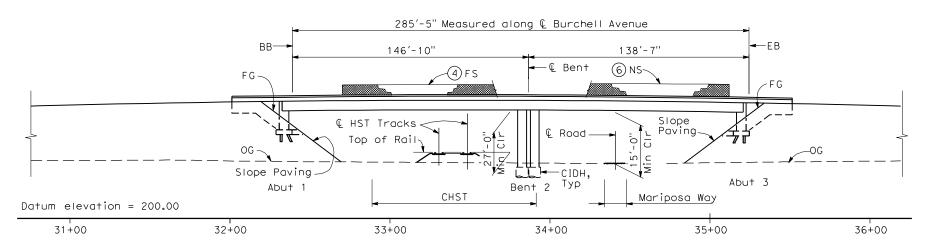
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE AVENUE 21 SANTA FE DRIVE OVERHEAD PLANNING STUDY

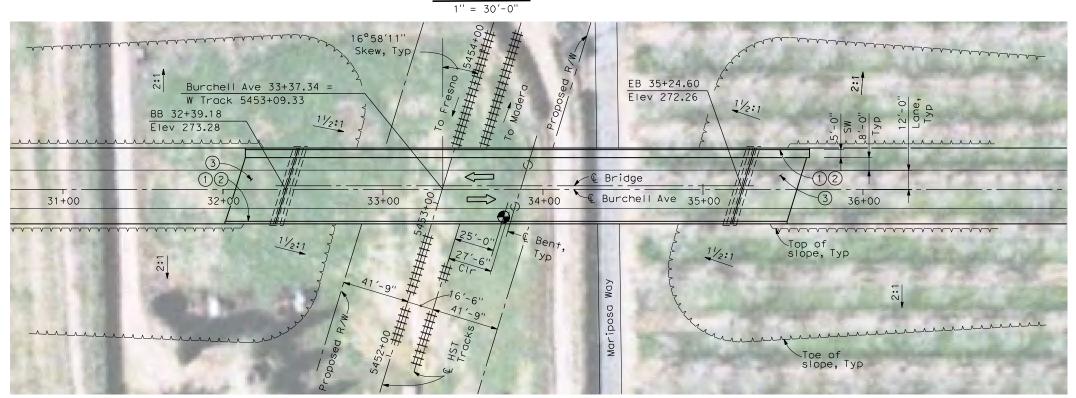
CONTR		06-007
DRAWIN	G NO.	
	SI	Г1016
SCALE	AS	SHOWN
SHEET	NO.)E



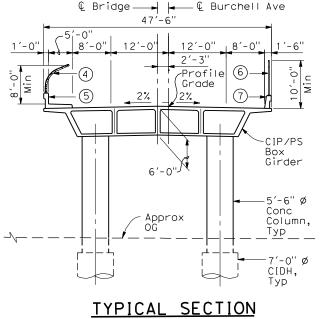




ELEVATION



PLAN 1" = 30'-0"



1''=10'-0"

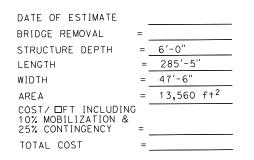
NOTES:

- 1 Paint "Bridge No. XX-XX"
- Paint "Burchell Avenue OH"
- Structure Approach Slab Type N (30S)
- Chain Link Railing Type 3
- (5) Concrete Barrier Type 26 (Mod)
- Chain Link Railing Type 7 (Mod)
- Concrete Barrier Type 732
- Bearing of Burchell Avenue to be determined.
- 9. Existing underground and overhead utilities to be determined.

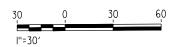
LEGEND:

Direction of traffic

Point of minimum vertical clearance



LOCATION 18



						DESIGNED BY H. LEE	
						DRAWN BY J. HODELL	
						CHECKED BY	
						L. LEUNG IN CHARGE	
						A. BOONE	
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011	

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

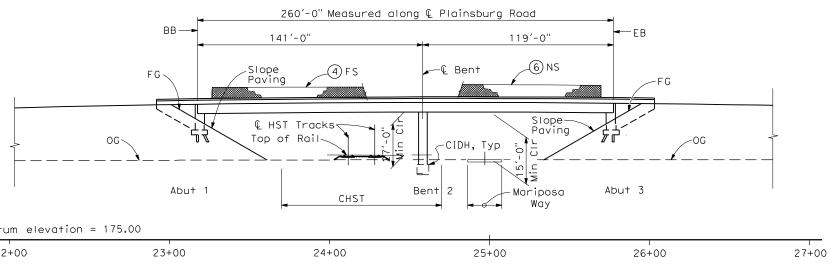


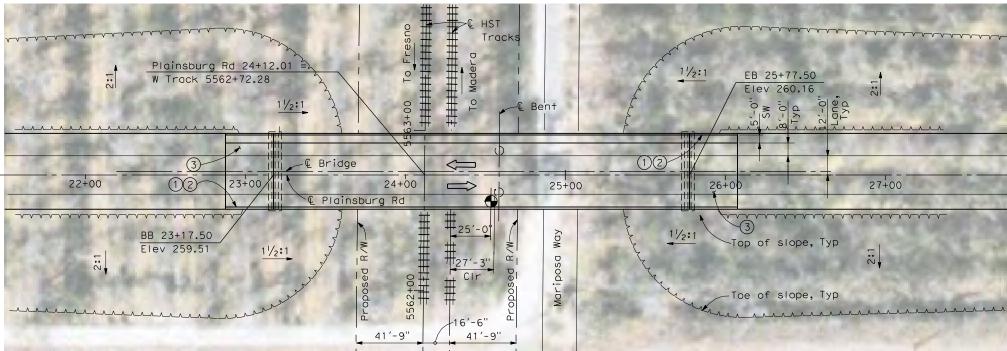


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

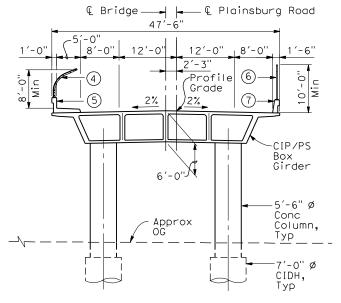
BNSF MERCED CONNECTION AVENUE 21/AVENUE 24 BURCHELL AVENUE OVERHEAD PLANNING STUDY

CONTRACT NO. HSRO6-007	
DRAWING NO.	
ST1018	
SCALE AS SHOWN	
SHEET NO.	





PLAN 1" = 30'-0"



TYPICAL SECTION

1"=10'-0"

NOTES:

- 1) Paint "Bridge No. XX-XX"
- Paint "Plainsburg Road OH"
- Structure Approach Slab Type N (30S)
- Chain Link Railing Type 3
- (5) Concrete Barrier Type 26 (Mod)
- Chain Link Railing Type 7 (Mod)
- 7 Concrete Barrier Type 732
- Bearing of Plainsburg Road to be determined.
- 9. Existing underground and overhead utilities to be determined.

LEGEND:

Direction of traffic

Point of minimum vertical clearance

DATE OF ESTIMATE BRIDGE REMOVAL = 6'-0" STRUCTURE DEPTH LENGTH = 260'-0" = 47'-6" WIDTH $= 12,350 ft^2$ AREA COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY TOTAL COST

LOCATION 19



						DRAWN BY J. HODELL CHECKED BY L. LEUNG IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION





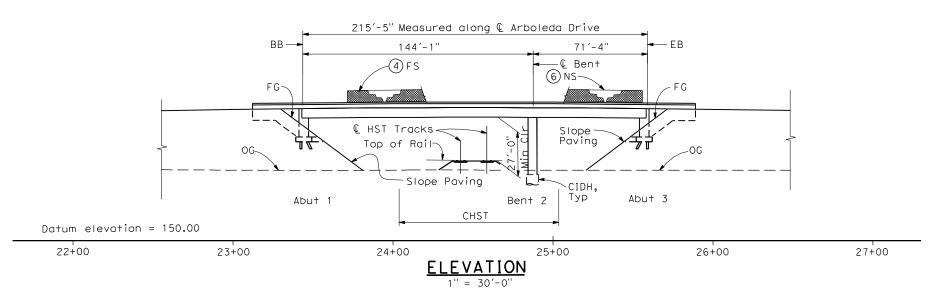
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

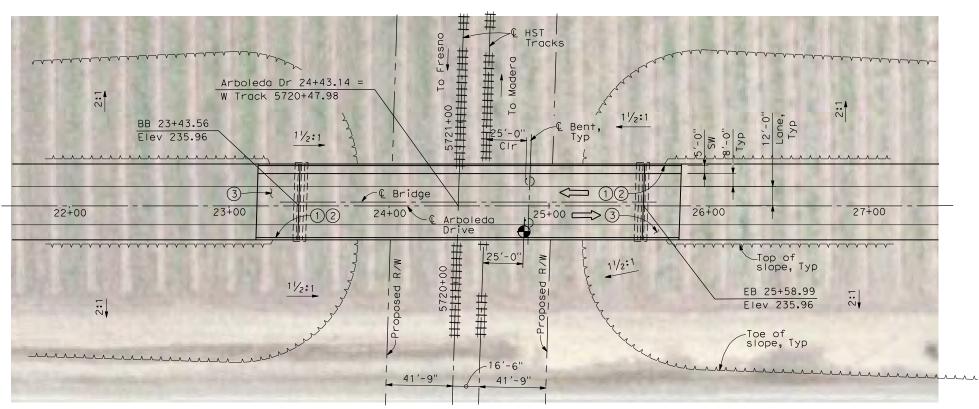
BNSF MERCED CONNECTION AVENUE 21/AVENUE 24 PLAINSBURG ROAD OVERHEAD PLANNING STUDY

CONTRACT NO.			
HSR06-007			
DRAWING NO.			
ST1019			
AS SHOWN			
SHEET NO.			

OF









RECORD SET 15% DESIGN SUBMITTAL CONSTRUCTION

NOT FOR

H. LEE

DRAWN BY

. LEUNG

N CHARGE A. BOONE

04/29/2011

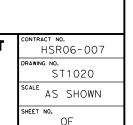
HECKED BY





LEGEND:

ARBOLEDA DRIVE OVERHEAD PLANNING STUDY





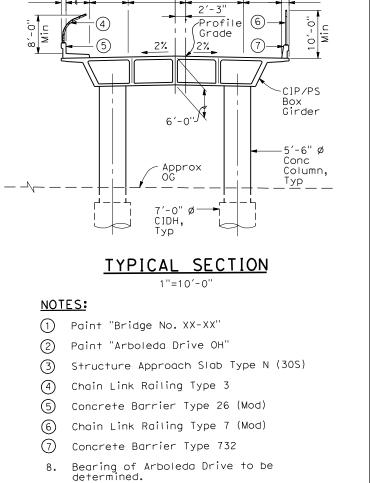
CALIFO

RNIA	HIGH-SI	PEED	TRAIN	PROJEC'
ME	ERCED	ΓO FF	RESNO	
BNSF	MERCED	CONNE	CTION	
	AVENU	E 21		
ADDOL	EDA DDIV	$\Gamma \cap \Gamma$		



BY CHK APP

DESCRIPTION



9. Existing underground and overhead utilities to be determined.

Point of minimum vertical

= 6'-0"

= 215'-5"

 $= 10,230 ft^2$

= 47'-6"

1"=30"

Direction of traffic

clearance

DATE OF ESTIMATE

BRIDGE REMOVAL

LENGTH

WIDTH

AREA

STRUCTURE DEPTH

COST/ DFT INCLUDING

10% MOBILIZATION &

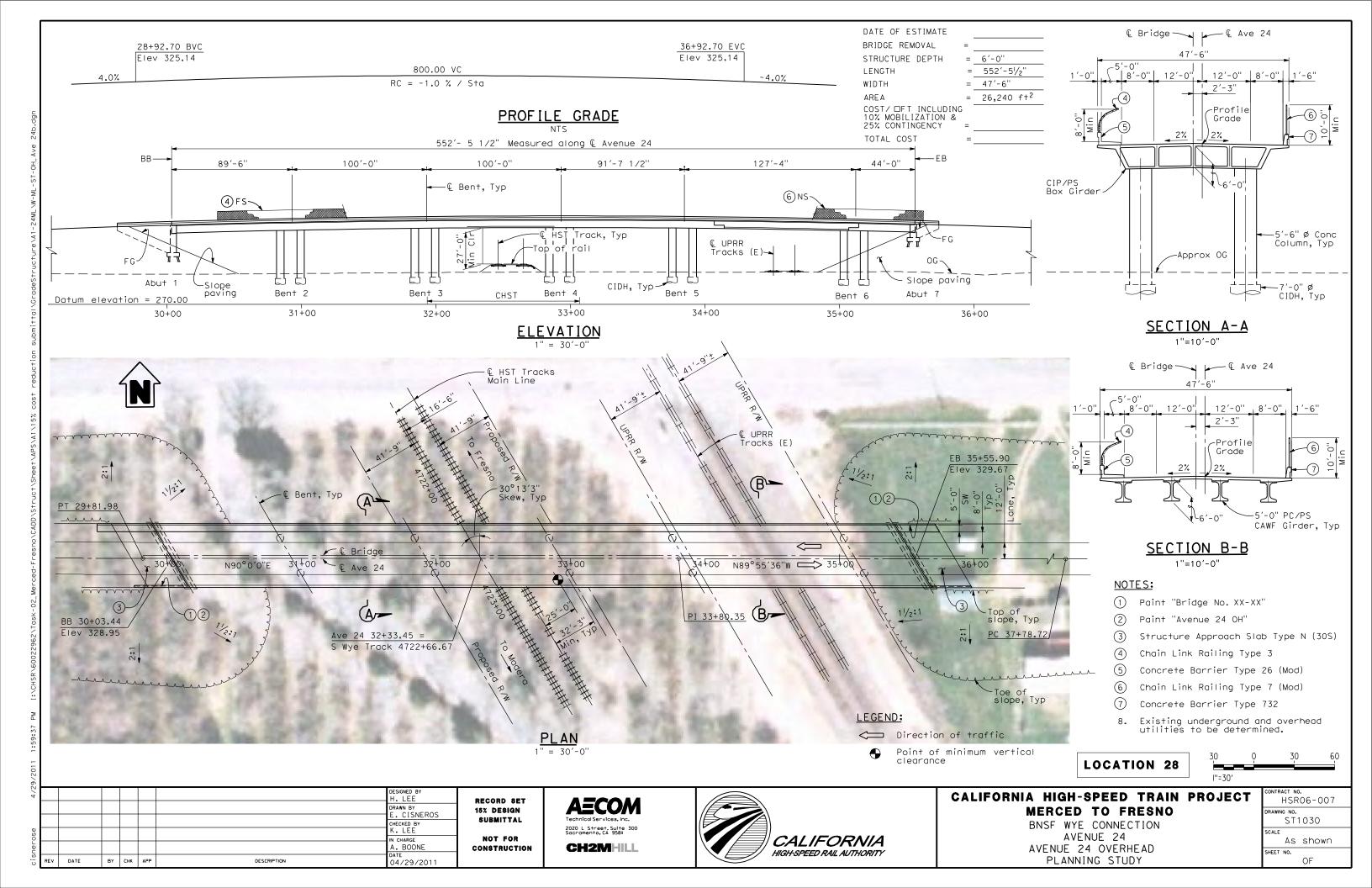
25% CONTINGENCY

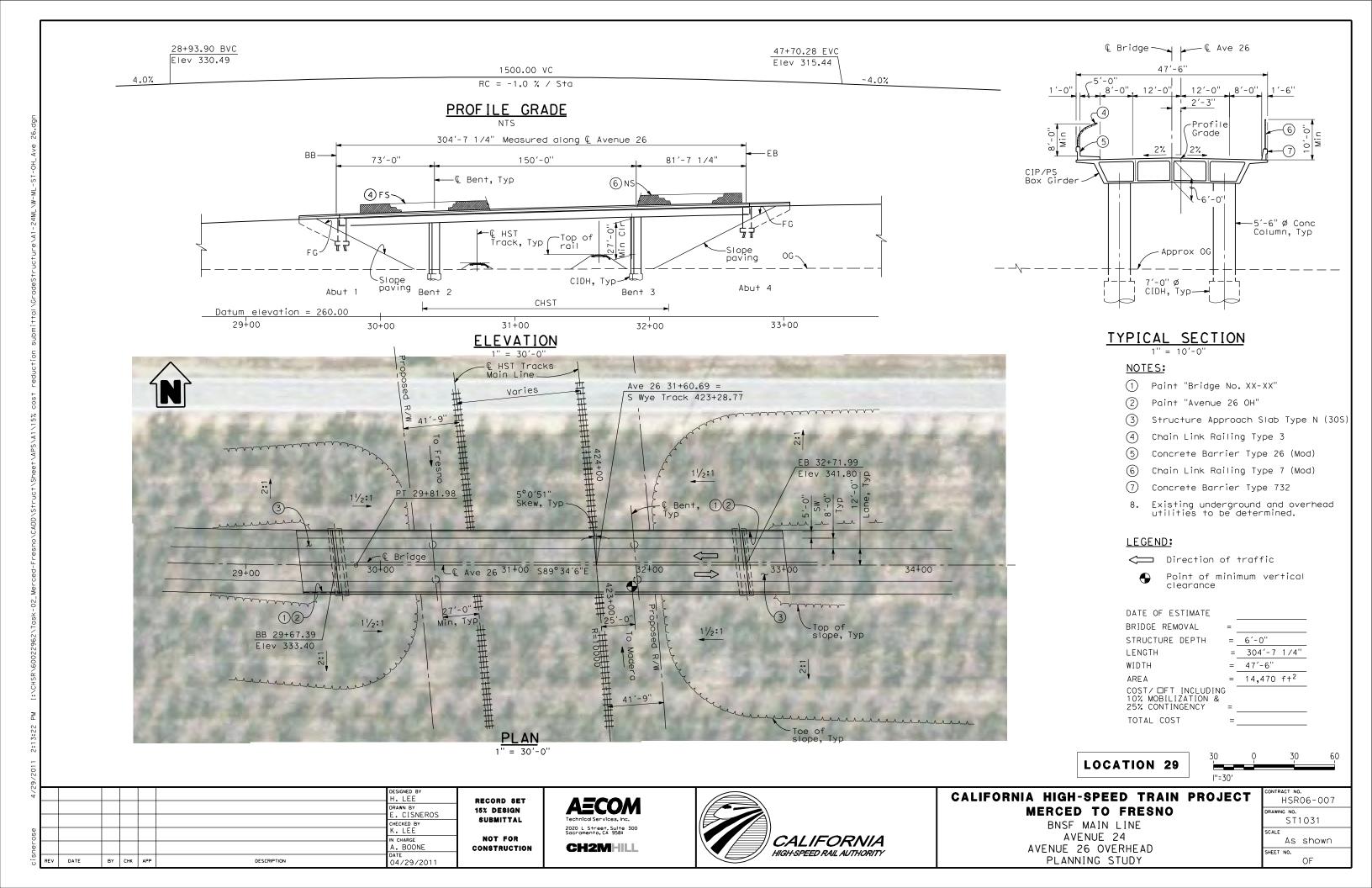
TOTAL COST

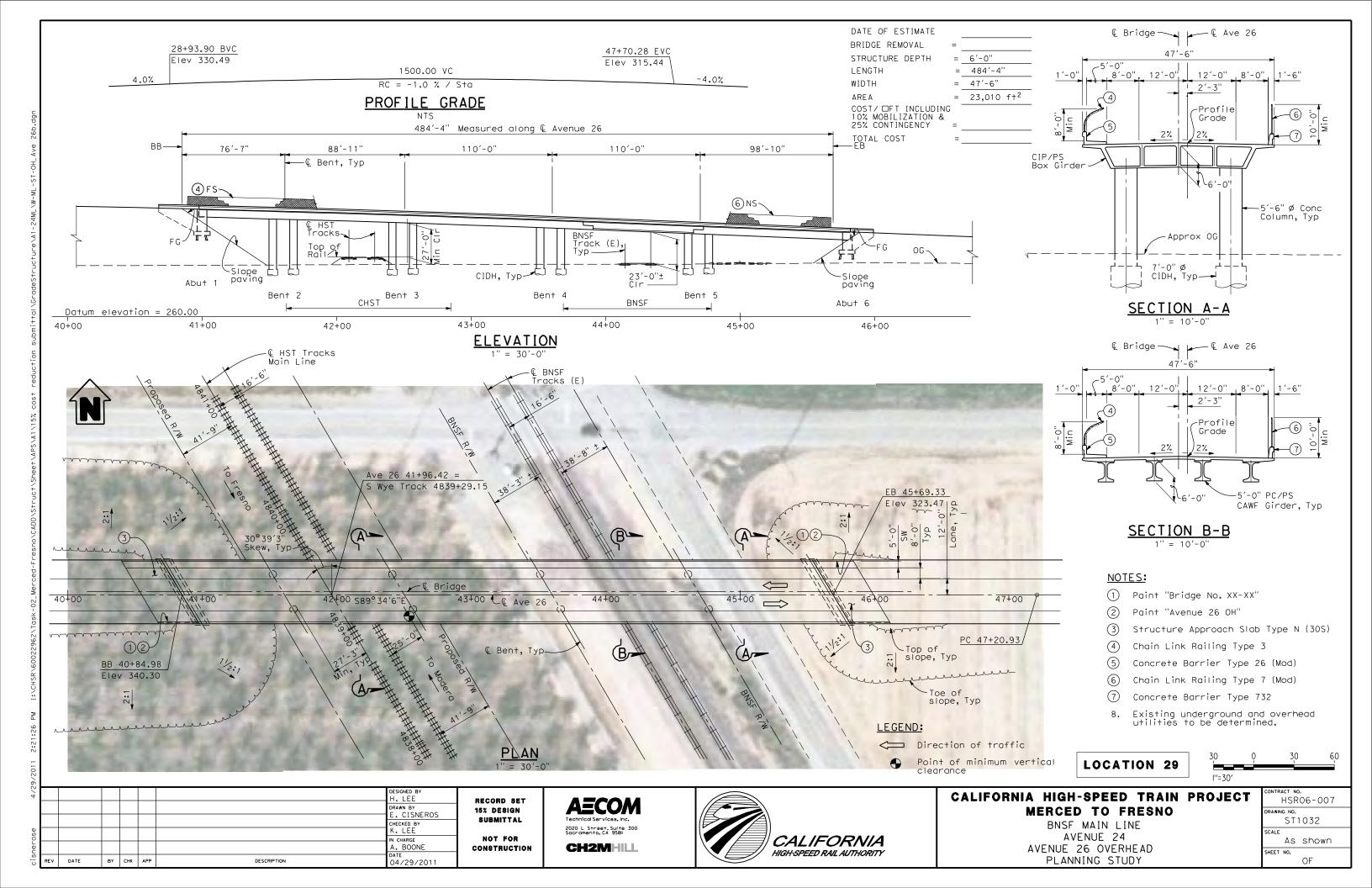
LOCATION 20

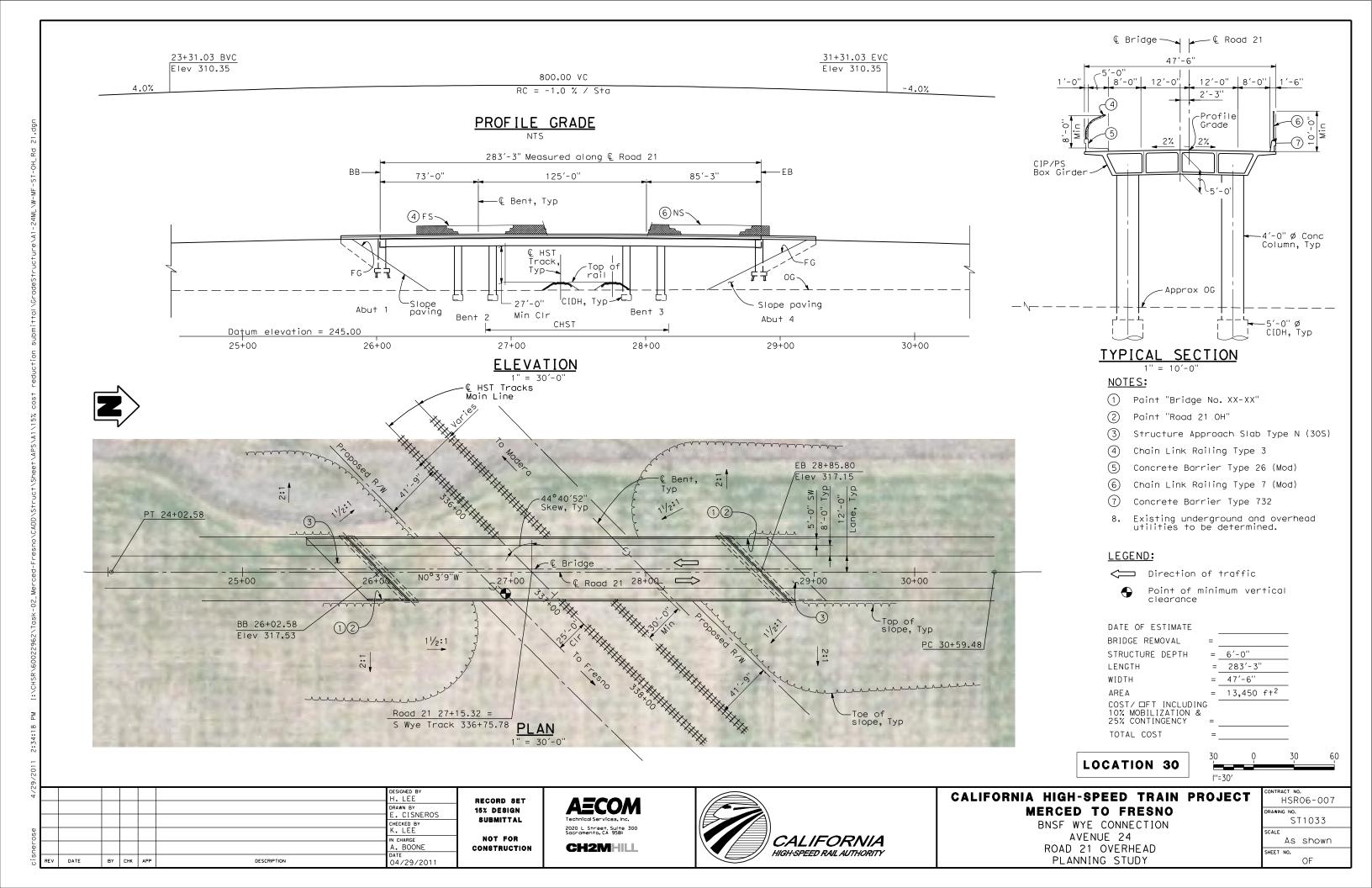
Bridge → ← ← Arboleda Drive

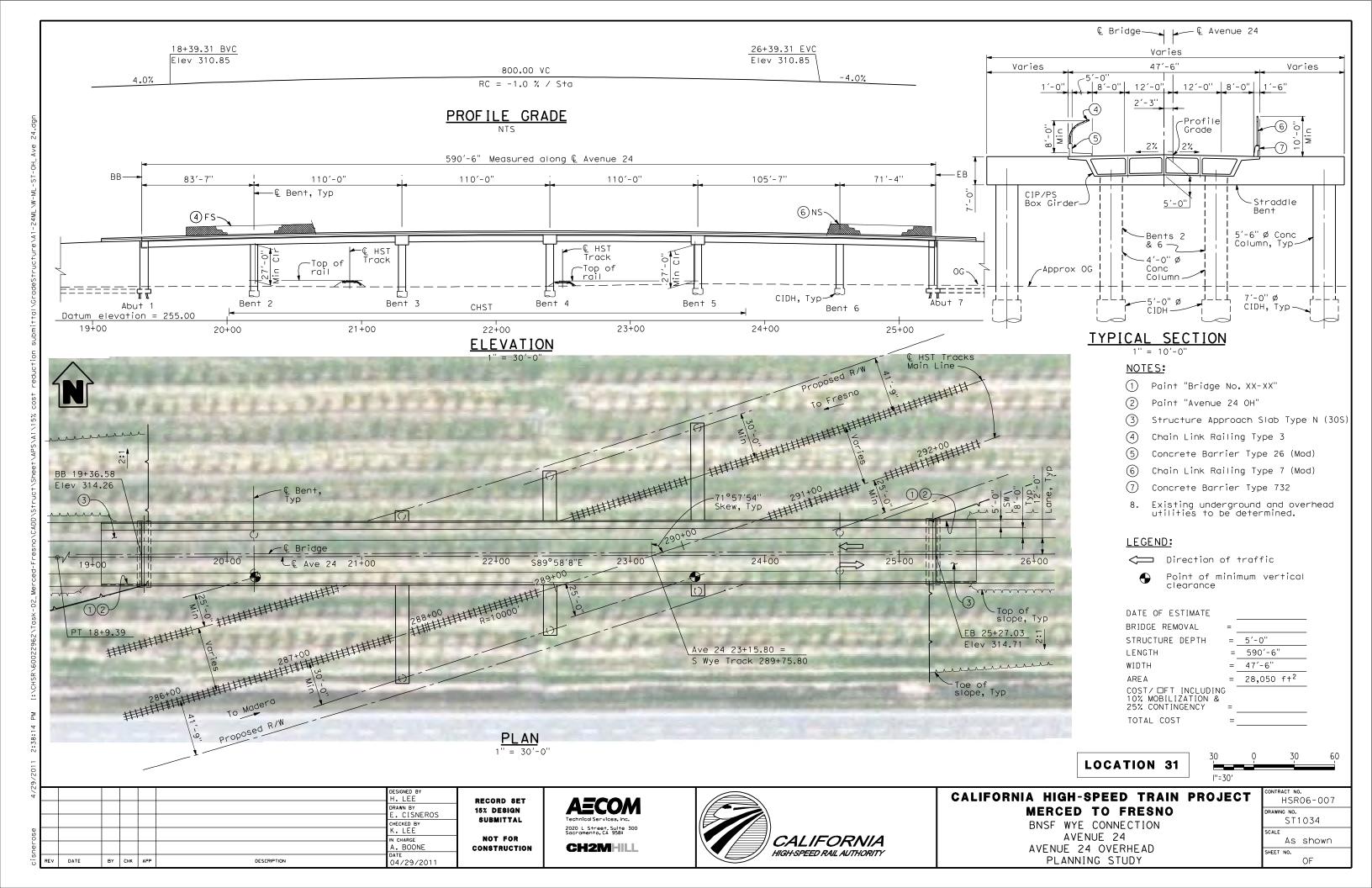
47'-6"

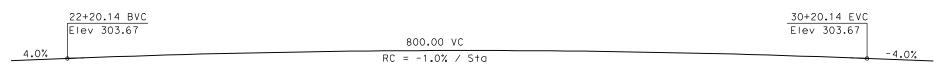


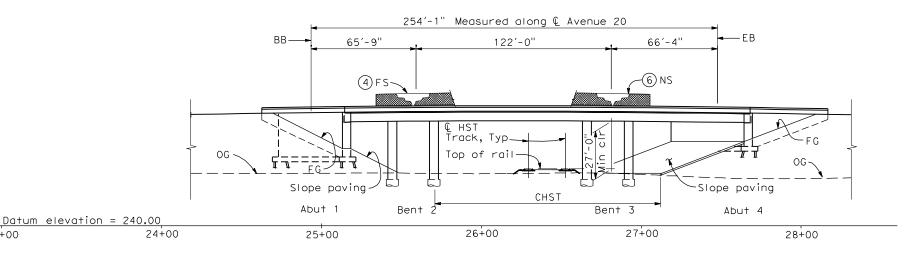




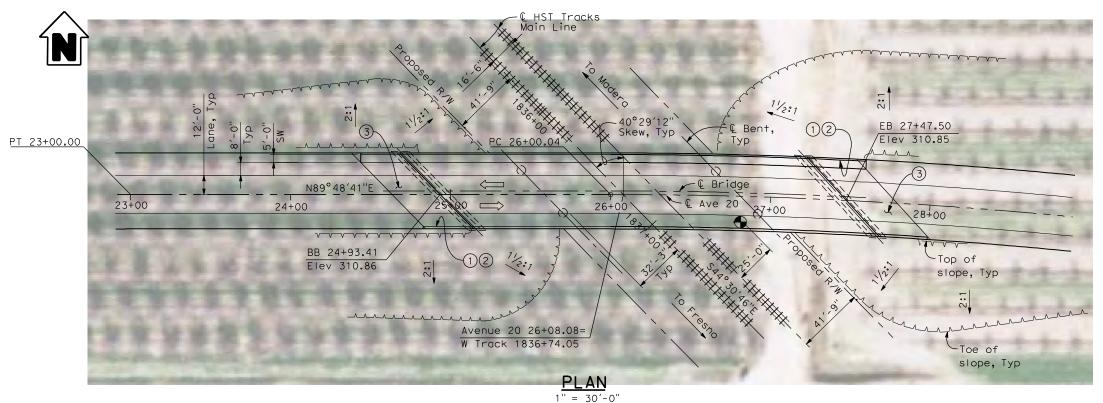


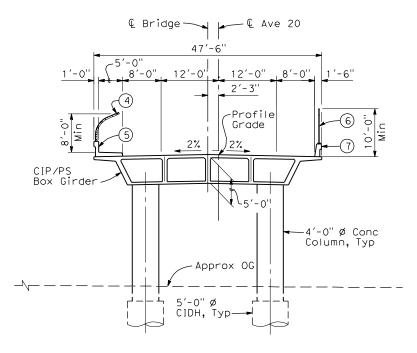






<u>ELEVATION</u> 1" = 30'-0"





TYPICAL SECTION

1"=10'-0"

NOTES:

- 1) Paint "Bridge No. XX-XX"
- (2) Paint "Avenue 20 OH"
- \bigcirc Structure Approach Slab Type N (30S)
- A) Chain Link Railing Type 3
- Concrete Barrier Type 26 (Mod)
- (6) Chain Link Railing Type 7 (Mod)
- Concrete Barrier Type 732
- 8. Existing underground and overhead utilities to be determined.

LEGEND:

Direction of traffic
Point of minimum vertical

Pt = Petroleum
UG = Underground

Date of Estimate

Bridge Removal =

Structure Depth = 5'-0"

Length = 254'-1"

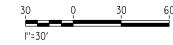
Width = 47'-6"

Area = 12,068 ft²

Cost/□ft including
10% Mobilization & 25% Contingency =

Total Cost =

LOCATION 32



)							
						DESIGNED BY H. LEE	
						DRAWN BY E.CISNEROS	
						CHECKED BY K. LEE	
						IN CHARGE A. Boone	
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II
CH2MHILL

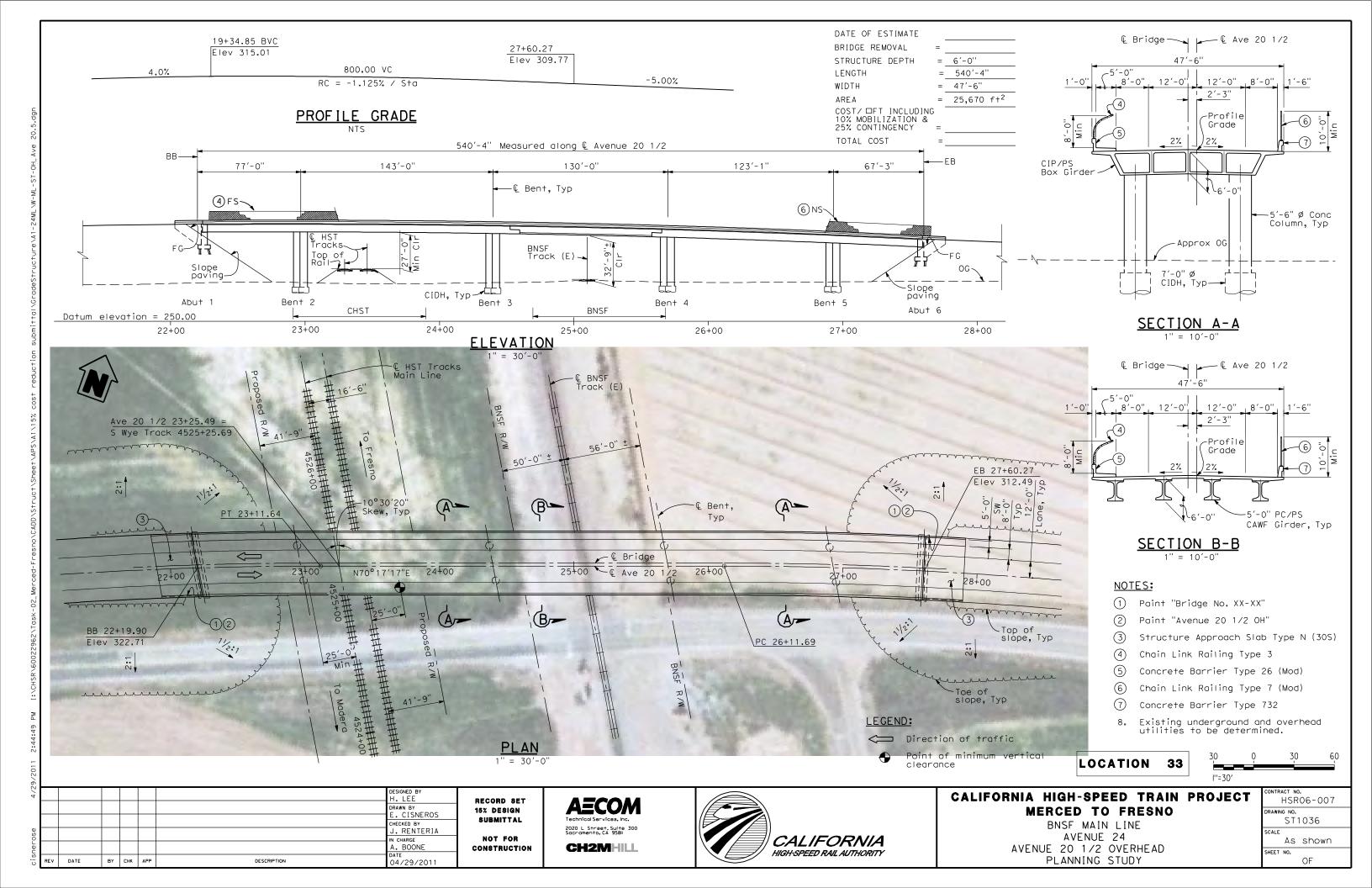


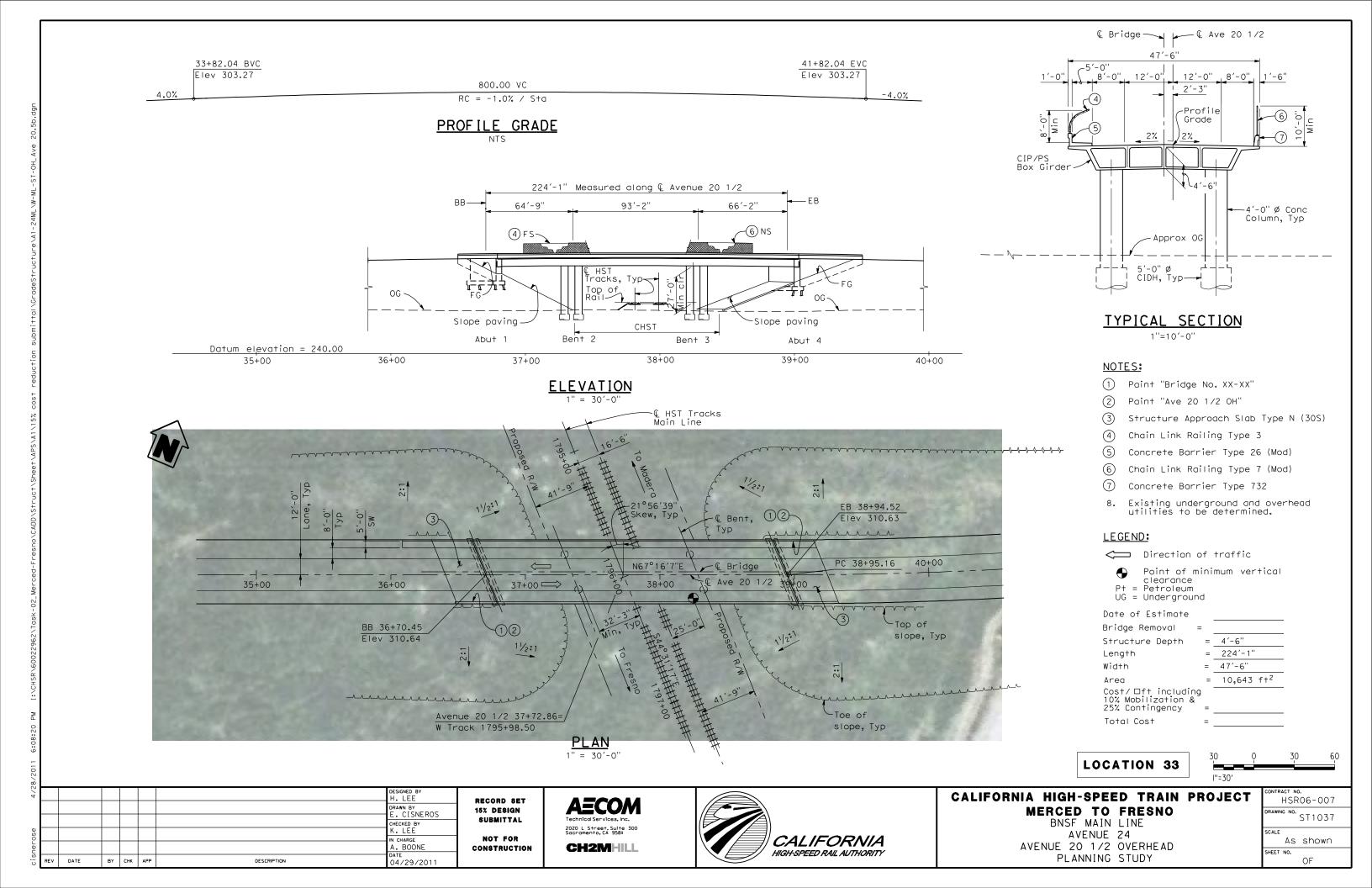
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO RNSF MAIN LINE

BNSF MAIN LINE AVENUE 24 AVENUE 20 OVERHEAD PLANNING STUDY

CONTRACT NO.
HSR06-007
DRAWING NO. ST1035
scale As shown

SHEET NO.



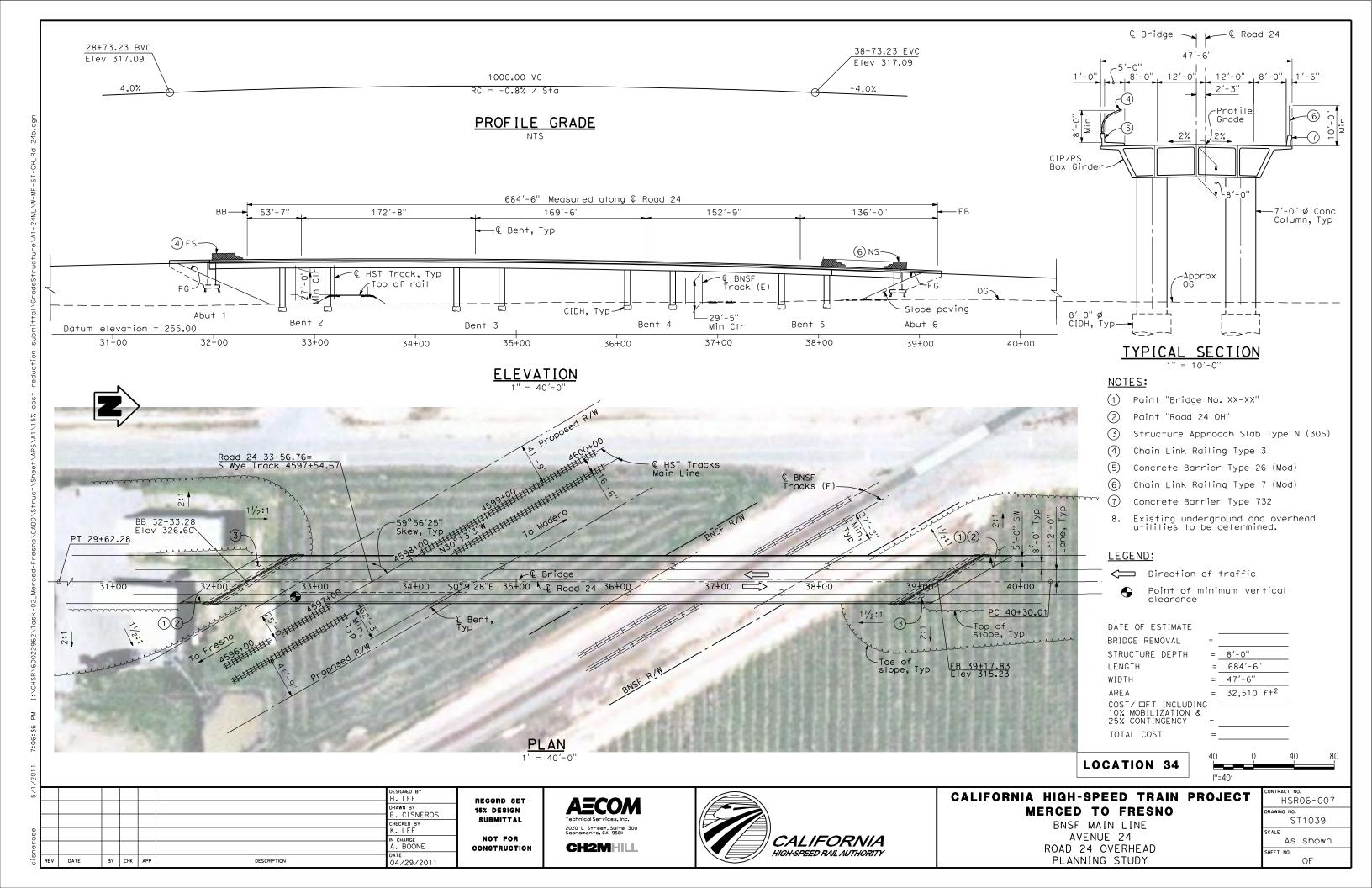


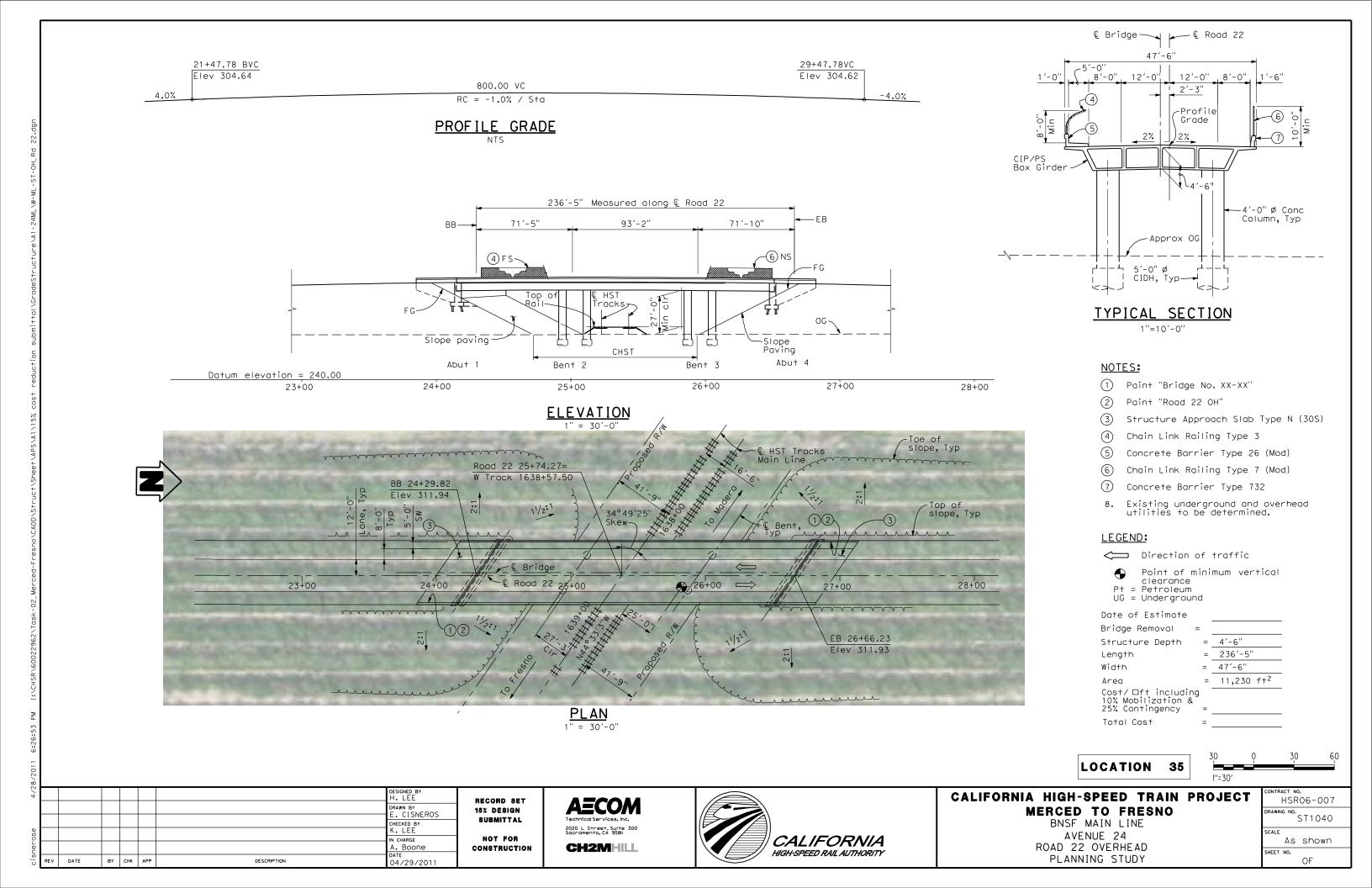
BY CHK APP

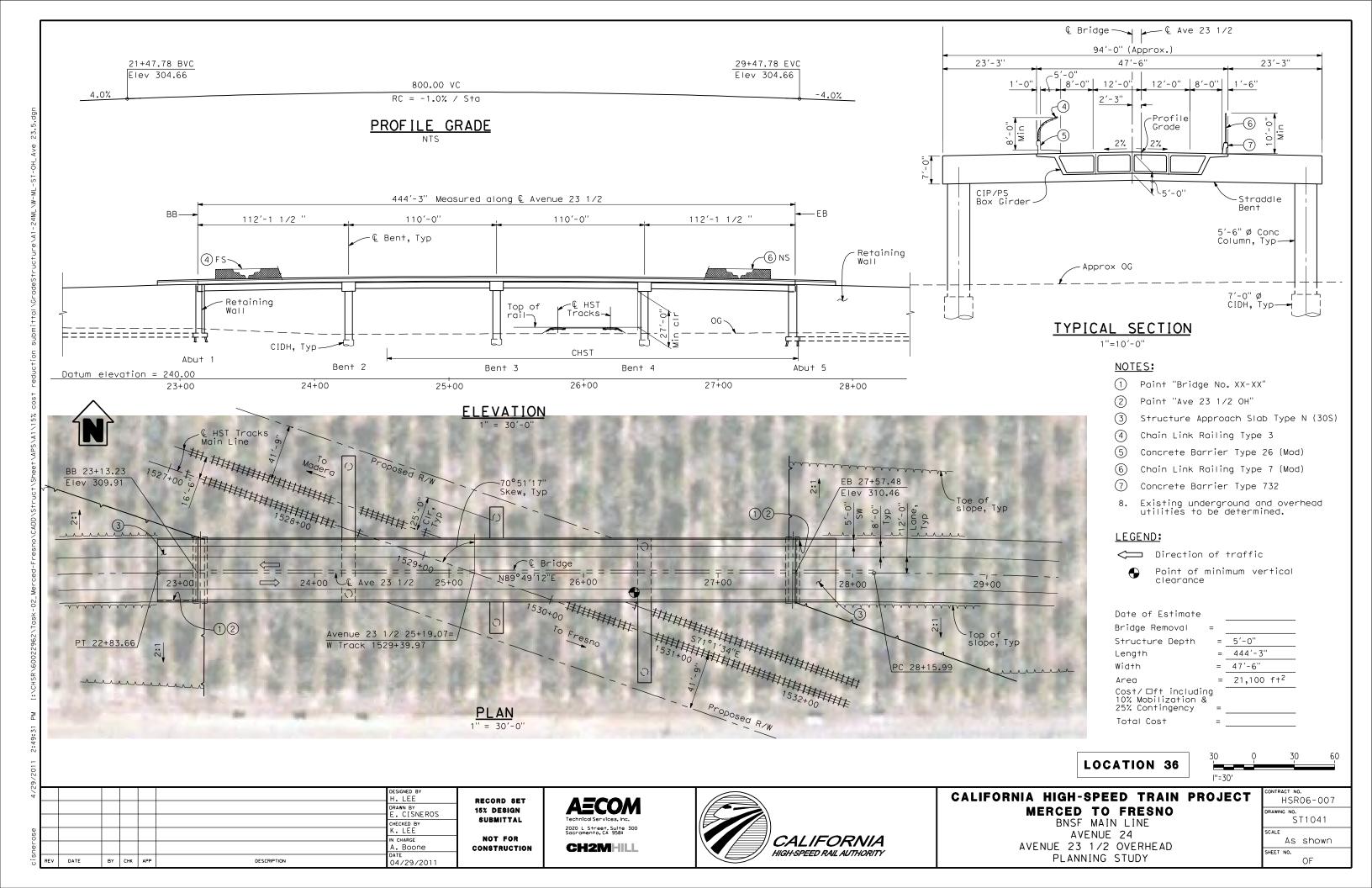
DESCRIPTION

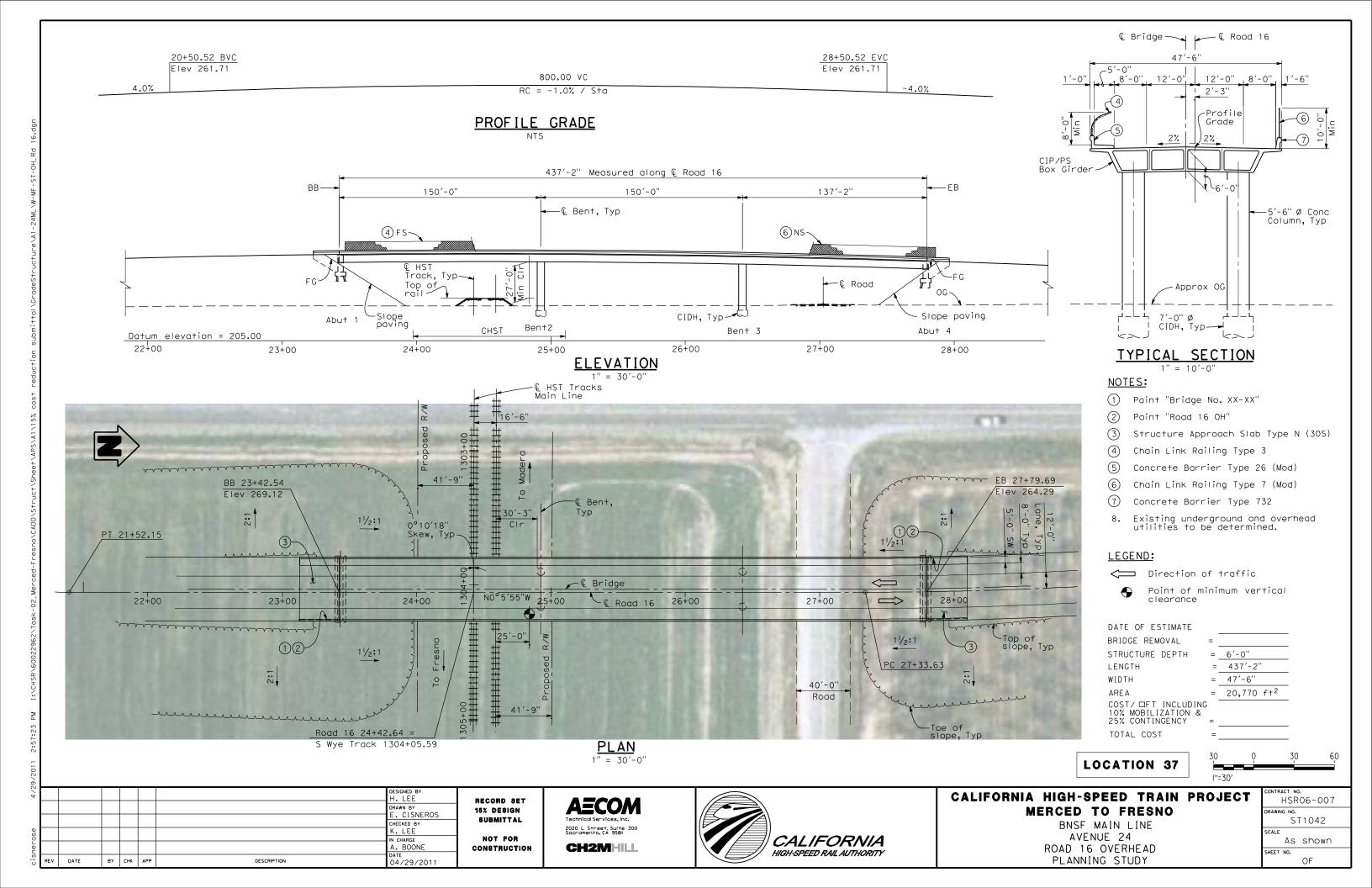
04/29/2011

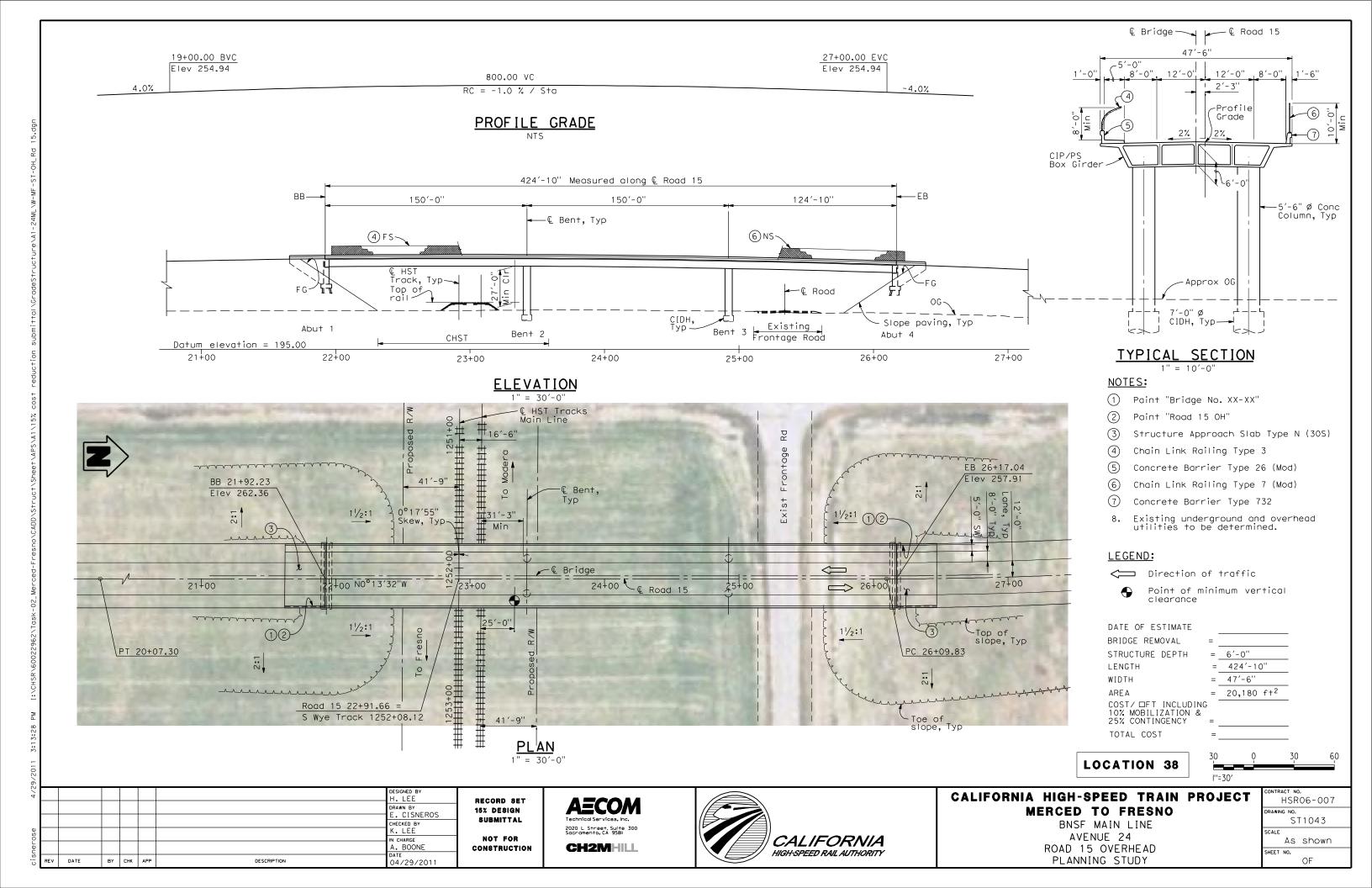
PLANNING STUDY

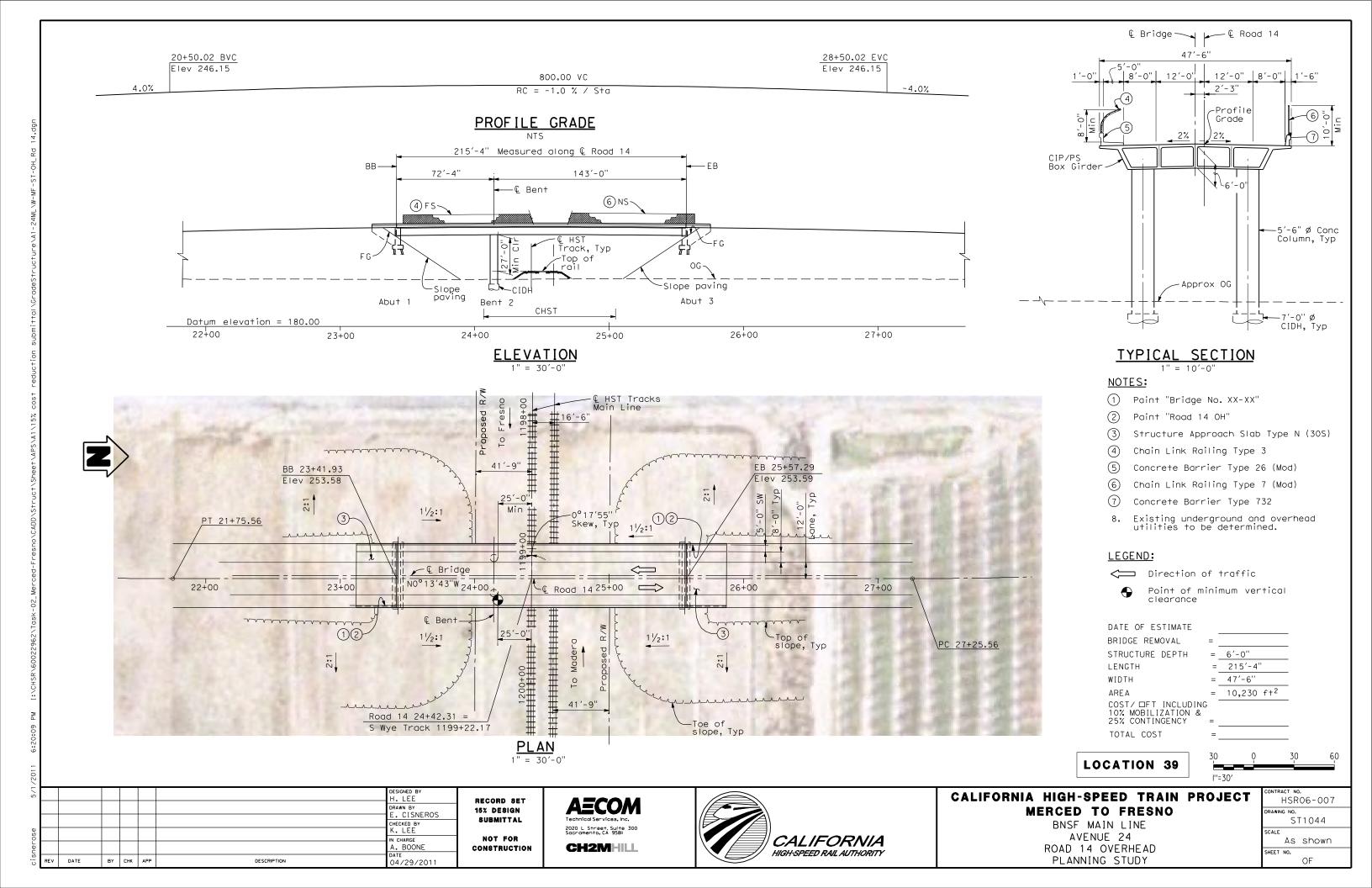


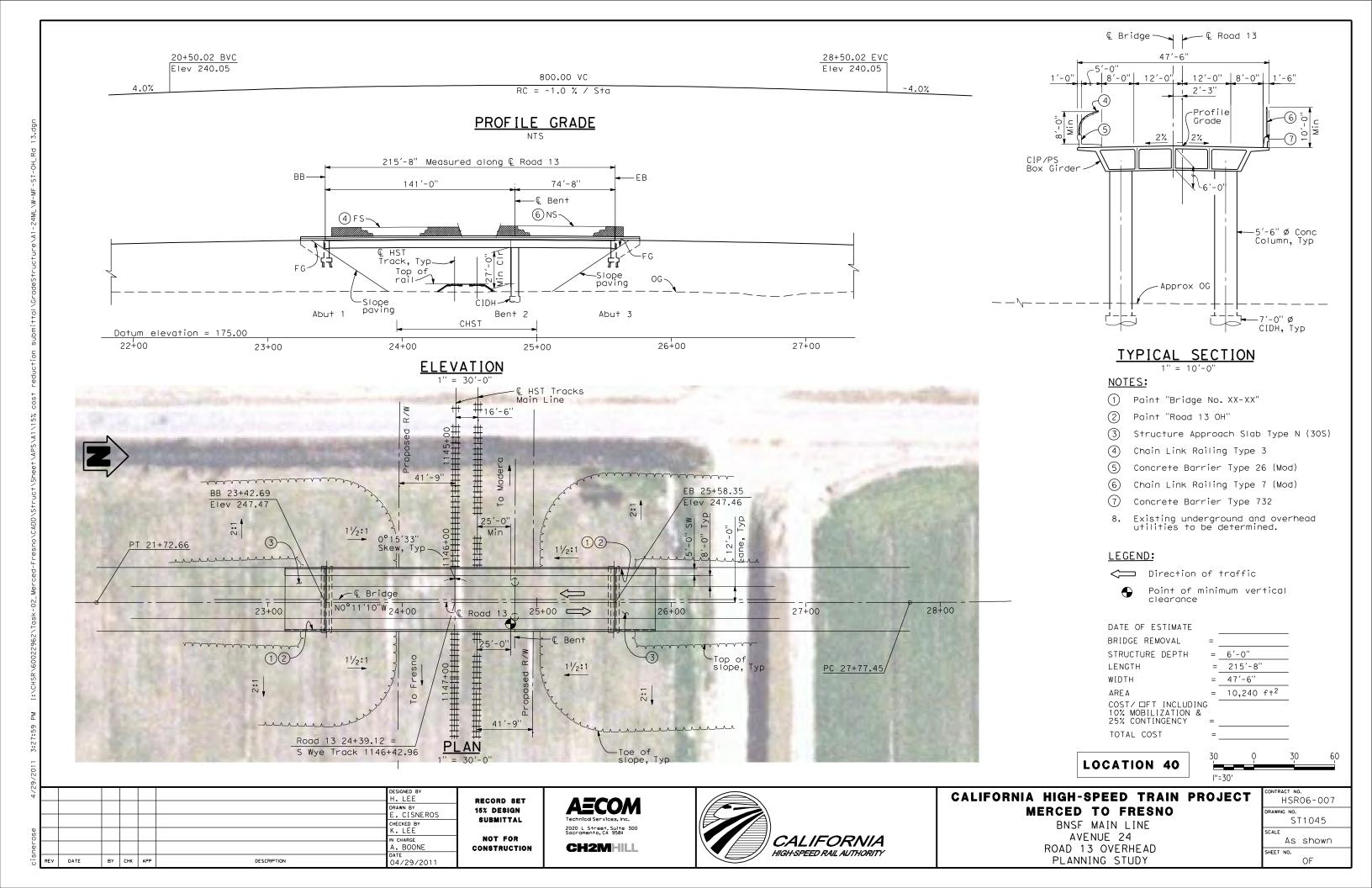


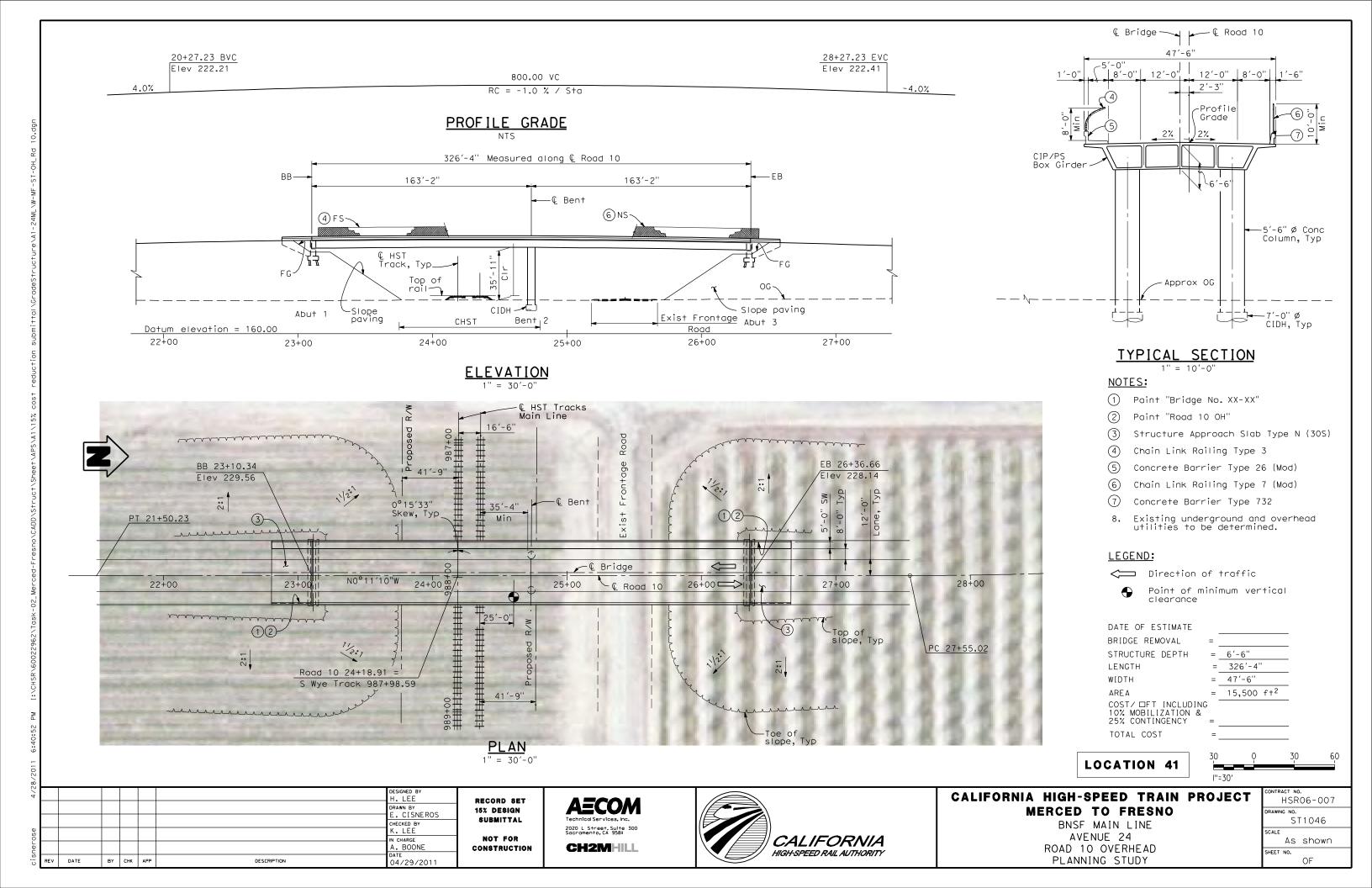


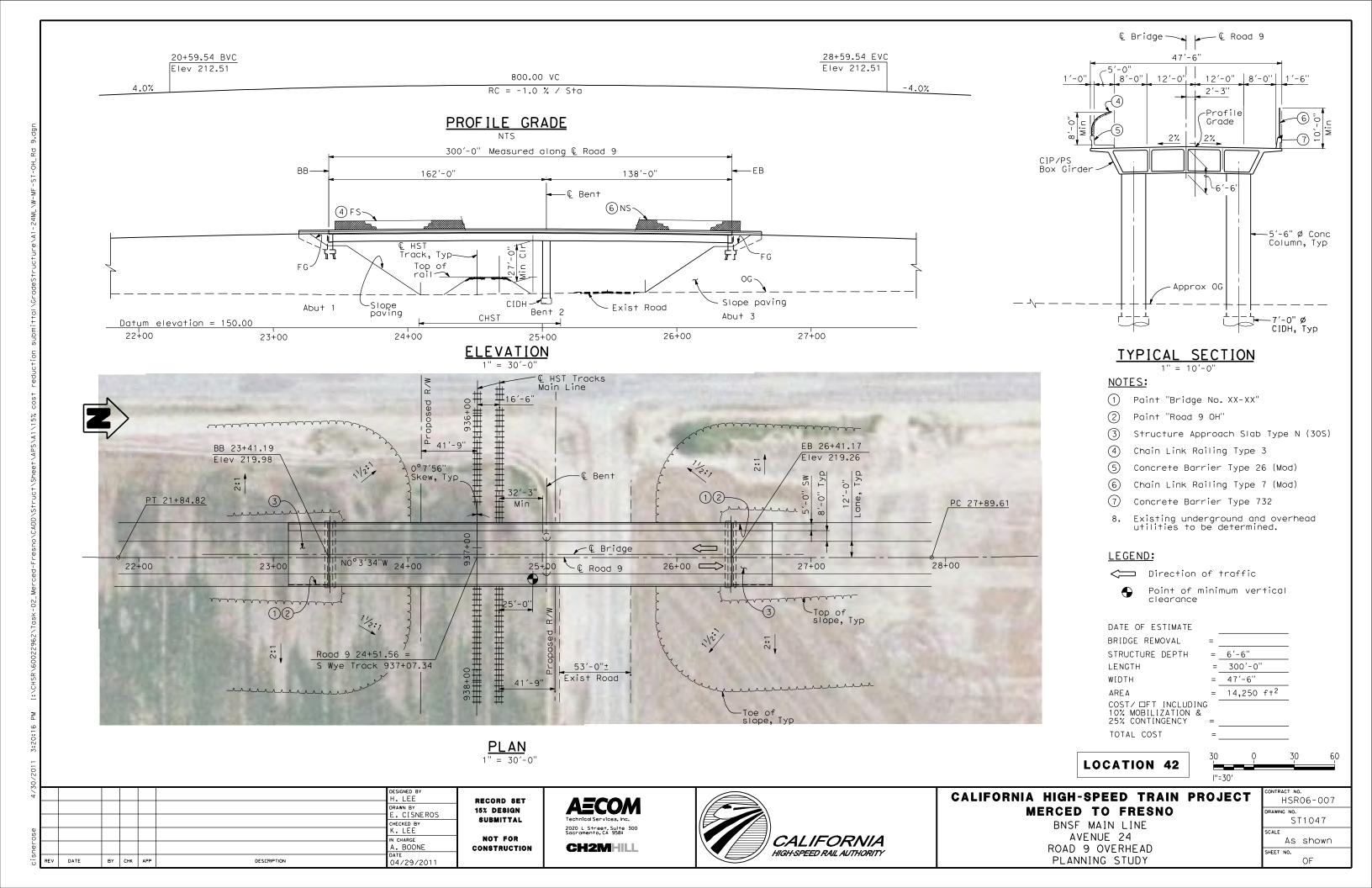


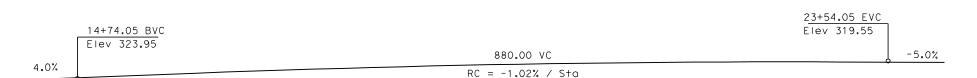




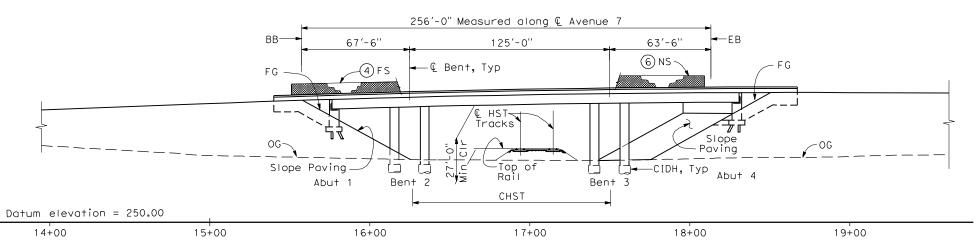






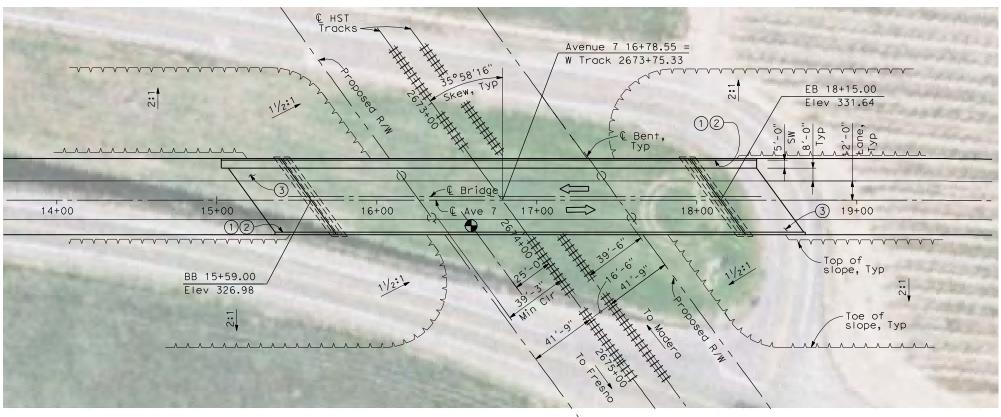


NTS



<u>ELEVATION</u> 1" = 30'-0"





PLAN 1'' = 30'-0''

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

H. LEE

DRAWN BY

N CHARGE A. BOONE

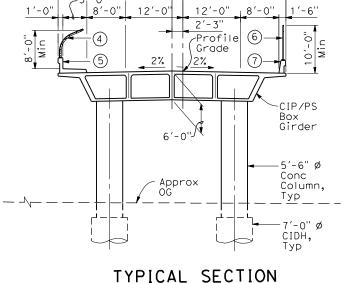
04/29/2011

DESCRIPTION

CHECKED BY

AECOM
Technical Services, inc.
2020 L Street, Sulte 300
Sacramento, CA 958II
CH2MHILL





1"=10'-0"

NOTES:

(1) Paint "Bridge No. XX-XX"

2) Paint "Avenue 7 OH"

3) Structure Approach Slab Type N (30S)

(4) Chain Link Railing Type 3

(5) Concrete Barrier Type 26 (Mod)

Chain Link Railing Type 7 (Mod)

(7) Concrete Barrier Type 732

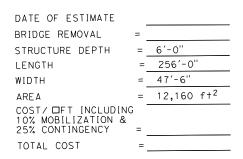
8. Bearing of Avenue 7 to be determined.

 Existing underground and overhead utilities to be determined.

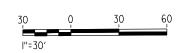
LEGEND:

Direction of traffic

Point of minimum vertical clearance



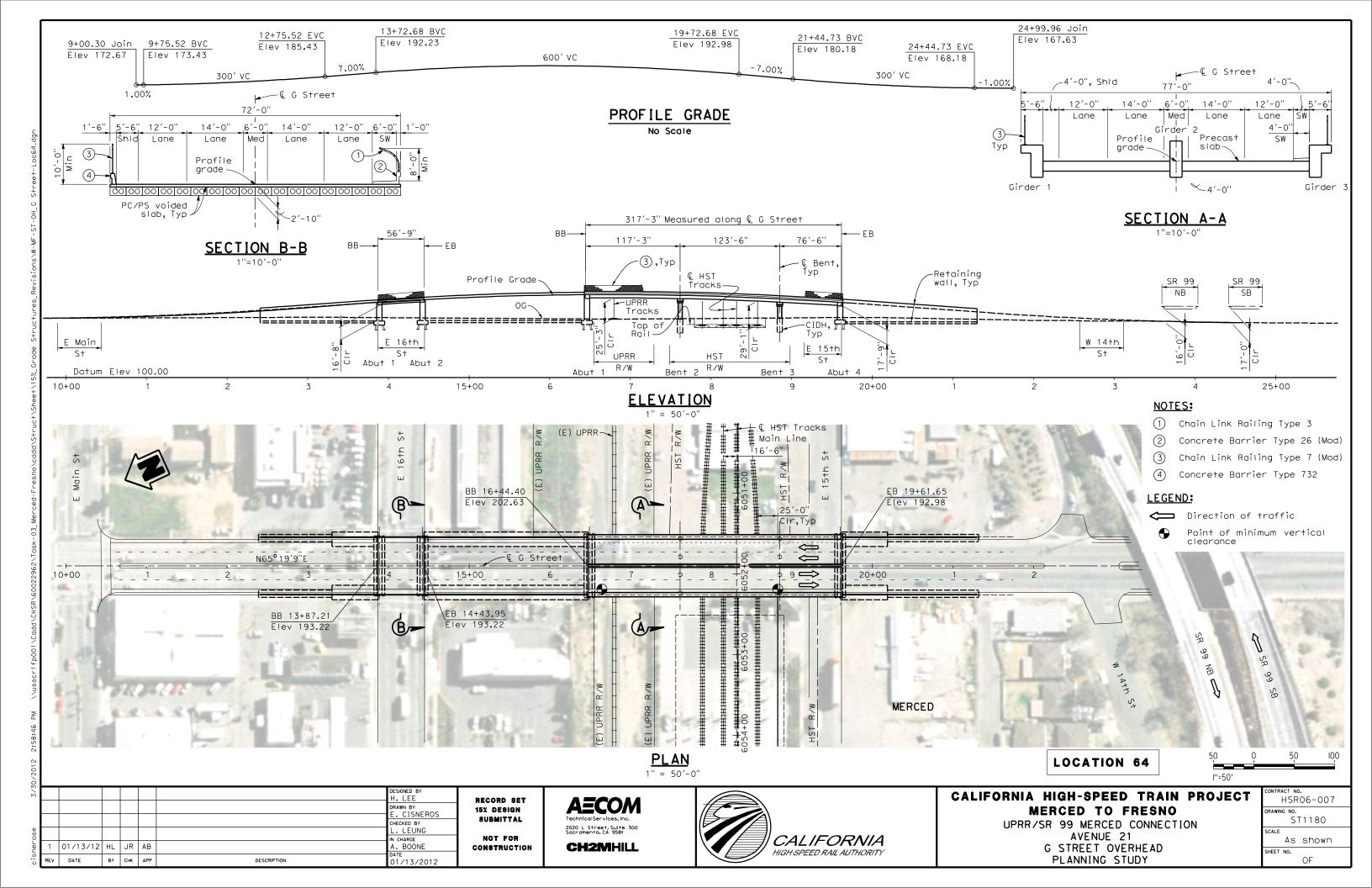
LOCATION 65

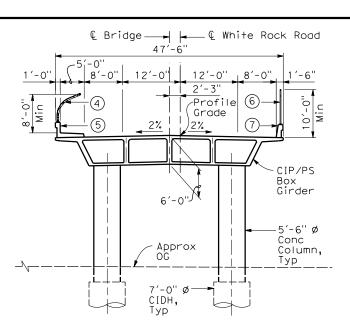


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE AVENUE 21 AVENUE 7 OVERHEAD PLANNING STUDY

CONTRACT NO.							
	HSR06-007						
DRAWIN	DRAWING NO.						
	ST1070						
SCALE	AS	SHOWN					
SHEET	NO.	^r					





TYPICAL SECTION

NOTES:

-4.0%

27+00

7 27+00

Toe of slope, Typ

EB 25+99.11

Elev 315.51

Tracks

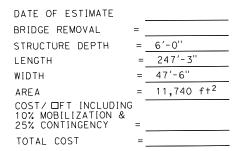
- 1) Paint "Bridge No. XX-XX"
- Paint "White Rock Road OH'
- Structure Approach Slab Type N (30S)
- Chain Link Railing Type 3
- Concrete Barrier Type 26 (Mod)
- Chain Link Railing Type 7 (Mod)
- Concrete Barrier Type 732
- Bearing of White Rock Road to be determined.
- 9. Existing underground and overhead utilities to be determined.

LEGEND:

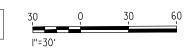
Direction of traffic

Point of minimum vertical clearance

Retaining wall



LOCATION 70



H. LEE J. HODEL HECKED BY _. LEUNG CHARGE . BOONE DATE BY CHK APP DESCRIPTION 04/29/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION **AECOM** 2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL**

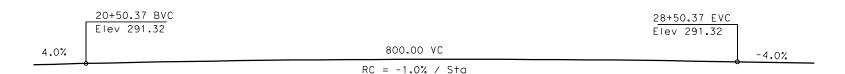
PLAN 1" = 30'-0"

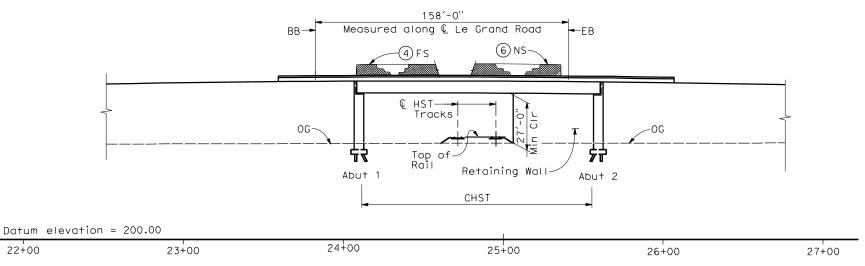


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

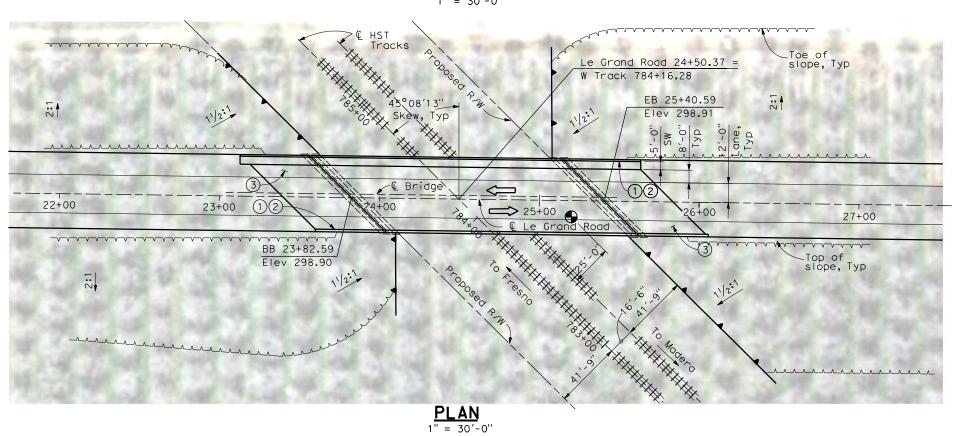
BNSF MERCED CONNECTION (ALTERNATIVE 1) AVENUE 21/AVENUE 24 WHITE ROCK ROAD OVERHEAD PLANNING STUDY

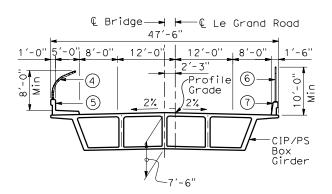
HSRO6-007							
DRAWING NO.							
ST1050							
As shown							
SHEET NO.							
OF							





ELEVATION1" = 30'-0"





TYPICAL SECTION

1''=10'-0"

NOTES:

- (1) Paint "Bridge No. XX-XX"
- (2) Paint "Le Grand Road OH"
- 3) Structure Approach Slab Type N (30S)
- (4) Chain Link Railing Type 3
- (5) Concrete Barrier Type 26 (Mod)
- 6) Chain Link Railing Type 7 (Mod)
- 7) Concrete Barrier Type 732
- 8. Bearing of Le Grand Road to be determined.
- 9. Existing underground and overhead utilities to be determined.

LEGEND:

Direction of traffic

Point of minimum vertical clearance

Retaining Wall

DATE OF ESTIMATE

BRIDGE REMOVAL =

STRUCTURE DEPTH = 7'-6"

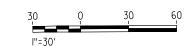
LENGTH = 158'-0"

WIDTH = 47'-6"

AREA = 7,510 f+2

COST/ □FT INCLUDING 10% MOBILIZATION & 25% CONTINGENCY = TOTAL COST =

LOCATION 71



						DESIGNED BY H. LEE	
						DRAWN BY J. HODELL	R
						CHECKED BY	
						L. LEUNG IN CHARGE	
						A. BOONE	C
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	DATE 04/29/2011	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

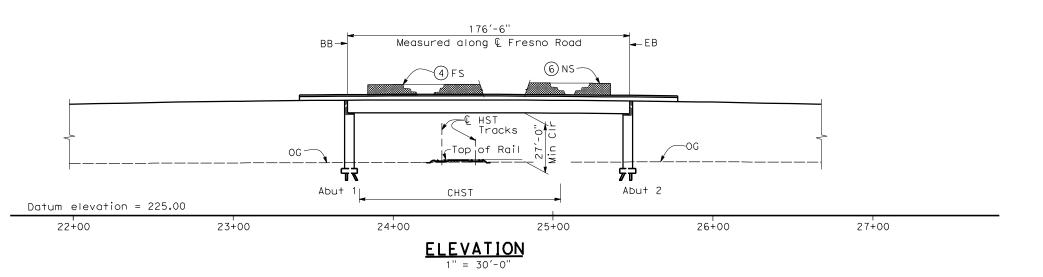
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II
CH2MHILL

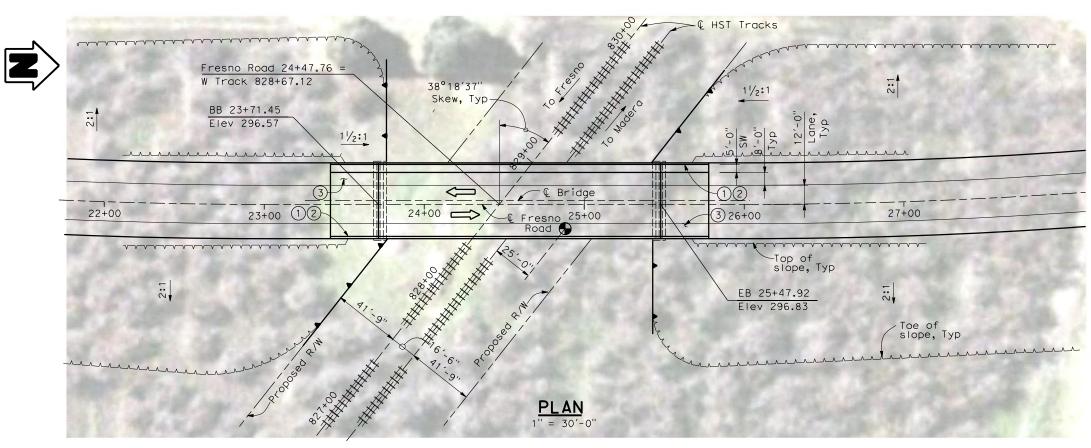


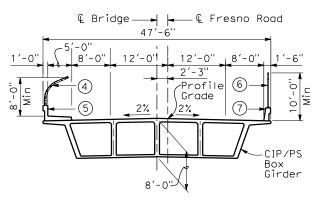
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION (ALTERNATIVE 1)
AVENUE 21/AVENUE 24
LE GRAND ROAD OVERHEAD
PLANNING STUDY

HSR06-007					
DRAWING NO. ST1051					
As shown					
SHEET NO. OF					







TYPICAL SECTION

1"=10'-0"

NOTES:

- 1) Paint "Bridge No. XX-XX"
- Paint "Fresno Road OH"
- 3) Structure Approach Slab Type N (30S)
- (4) Chain Link Railing Type 3
- 5) Concrete Barrier Type 26 (Mod)
- 6) Chain Link Railing Type 7 (Mod)
- (7) Concrete Barrier Type 732
- 8. Bearing of Fresno Road to be determined.
- Existing underground and overhead utilities to be determined.

LEGEND:

Direction of traffic



Point of minimum vertical clearance

Retaining wall

DATE OF ESTIMATE

BRIDGE REMOVAL =

STRUCTURE DEPTH = 8'-0"

LENGTH = 176'-6"

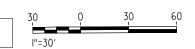
WIDTH = 47'-6"

AREA = 8,380 f+2

COST/ □FT INCLUDING
10% MOBILIZATION &
25% CONTINGENCY =

LOCATION 72

TOTAL COST



					DESIGNED BY H. LEE DRAWN BY J. HODELL	
					CHECKED BY L. LE UNG IN CHARGE A. BOONE	
REV	DATE	ВΥ	СНК	ΔPP	DESCRIPTION DATE 04/29/2011	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II

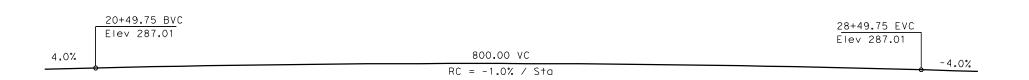
CH2MHILL

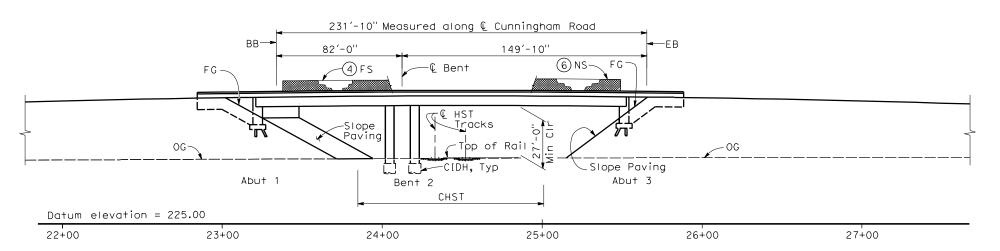


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION (ALTERNATIVE 1)
AVENUE 21/AVENUE 24
FRESNO ROAD OVERHEAD
PLANNING STUDY

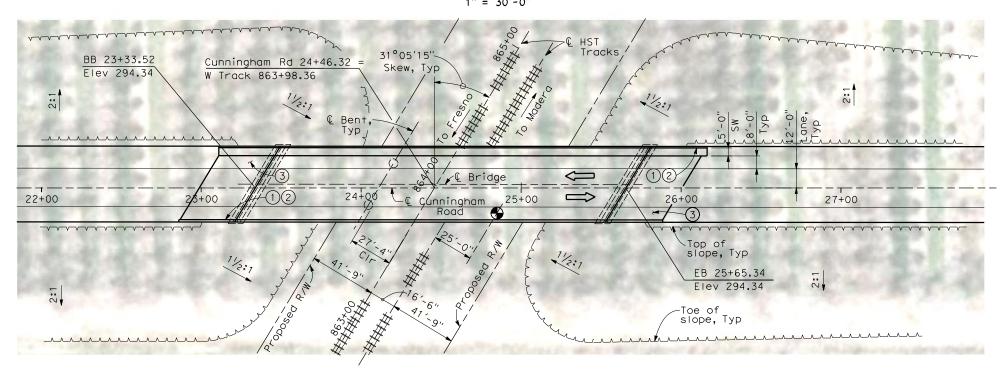
HSR06-007
DRAWING NO.
ST1052
As shown
SHEET NO.
OF



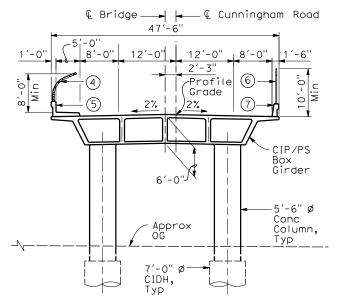


ELEVATION1" = 30'-0"





<u>PLAN</u> 1" = 30'-0"



TYPICAL SECTION

1"=10'-0"

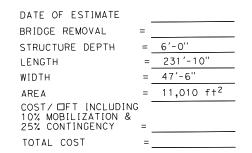
NOTES:

- 1) Paint "Bridge No. XX-XX"
- Paint "Cunningham Road OH"
- Structure Approach Slab Type N (30S)
- Chain Link Railing Type 3
- Concrete Barrier Type 26 (Mod)
- Chain Link Railing Type 7 (Mod)
- Concrete Barrier Type 732
- Bearing of Cunningham Road to be determined.
- Existing underground and overhead utilities to be determined.

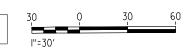
LEGEND:

Direction of traffic

Point of minimum vertical clearance



LOCATION 73



						DESIGNED BY H. LEE	
						DRAWN BY J. HODELL	
						CHECKED BY	
						L. LEUNG IN CHARGE	
						A. BOONE	
REV	DATE	ВҮ	СНК	APP	DESCRIPTION	04/29/2011	

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

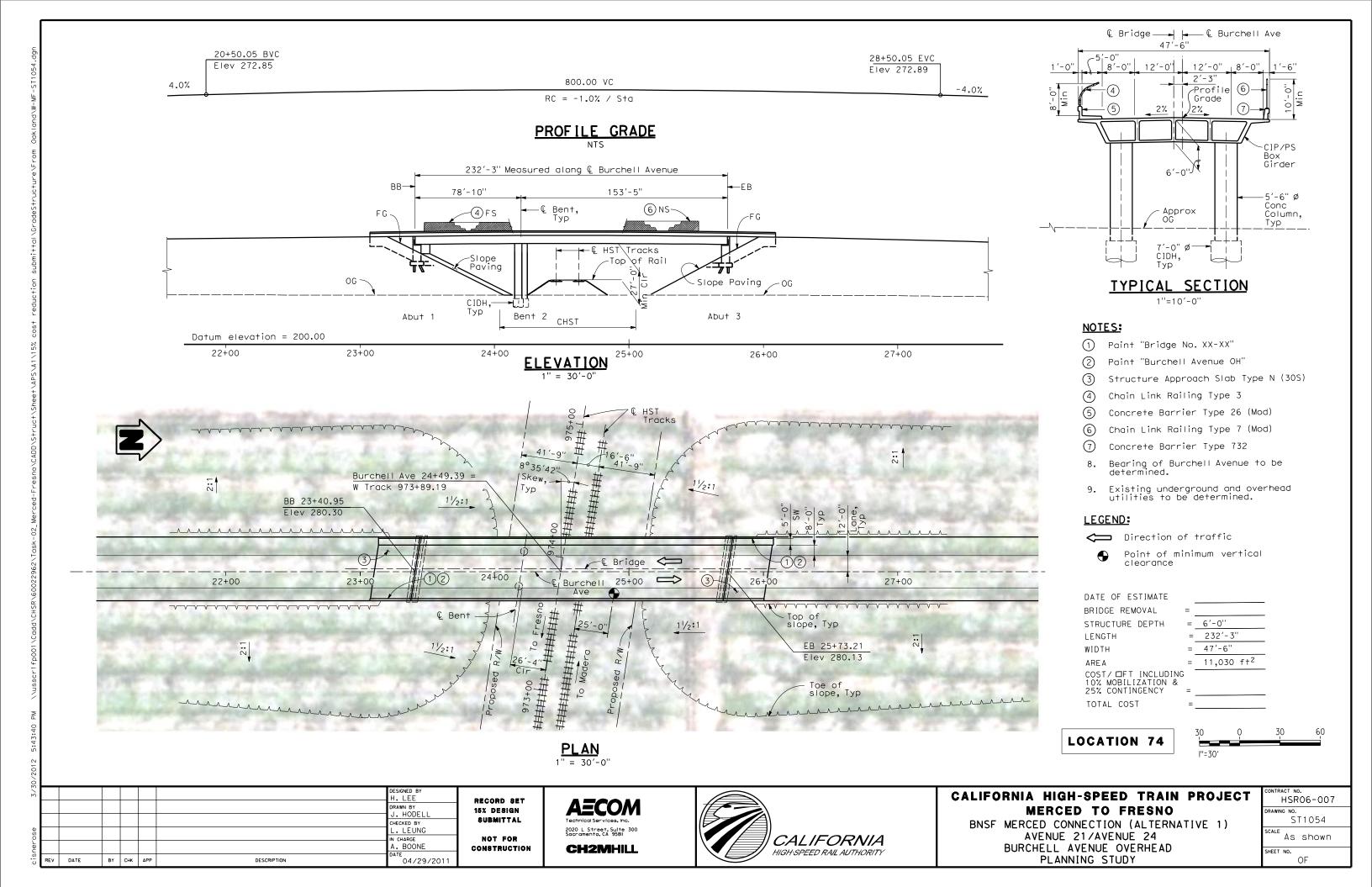
AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL**

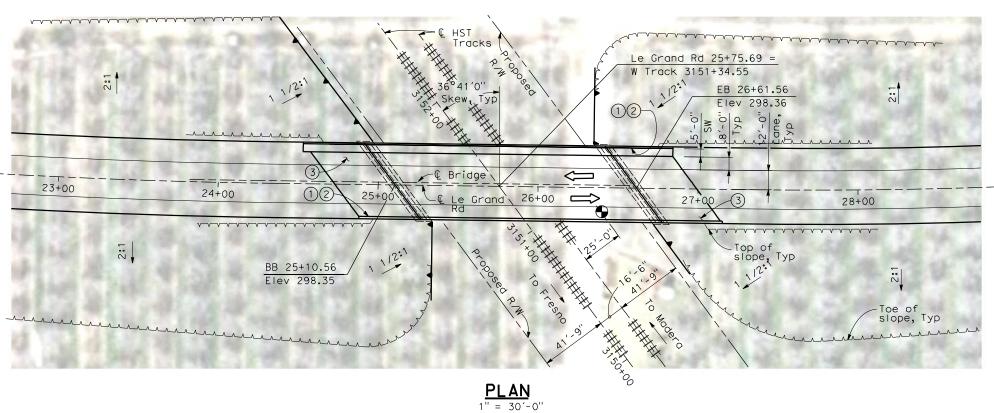


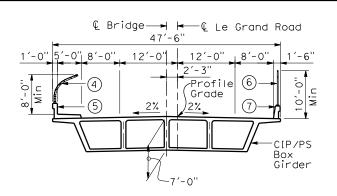
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION (ALTERNATIVE 1) AVENUE 21/AVENUE 24 CUNNINGHAM ROAD OVERHEAD PLANNING STUDY

	HSR06-007						
	DRAWING NO.						
ı	ST1053						
	As shown						
	SHEET NO.						
ı	OF.						







TYPICAL SECTION

1"=10'-0"

NOTES:

-4.0%

- 1) Paint "Bridge No. XX-XX"
- (2) Paint "Le Grand Road OH"
- 3) Structure Approach Slab Type N (30S)
- (4) Chain Link Railing Type 3
- 5) Concrete Barrier Type 26 (Mod)
- 6) Chain Link Railing Type 7 (Mod)
- 7) Concrete Barrier Type 732
- 8. Bearing of Le Grand Road to be determined.
- Existing underground and overhead utilities to be determined.

LEGEND:

Direction of traffic

Point of minimum vertical clearance

Retaining Wall

DATE OF ESTIMATE

BRIDGE REMOVAL =

STRUCTURE DEPTH = 7'-0"

LENGTH = 151'-0"

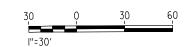
WIDTH = 47'-6"

AREA = 7,170 f+2

COST/ □FT INCLUDING
10% MOBILIZATION &
25% CONTINGENCY =

TOTAL COST =

LOCATION 75



						DESIGNED BY H. LEE	
						DRAWN BY J. HODELL	R
						CHECKED BY	
						L. LEUNG	
						A. BOONE	C.
REV	DATE	ВΥ	СНК	APP	DESCRIPTION	04/29/2011	

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

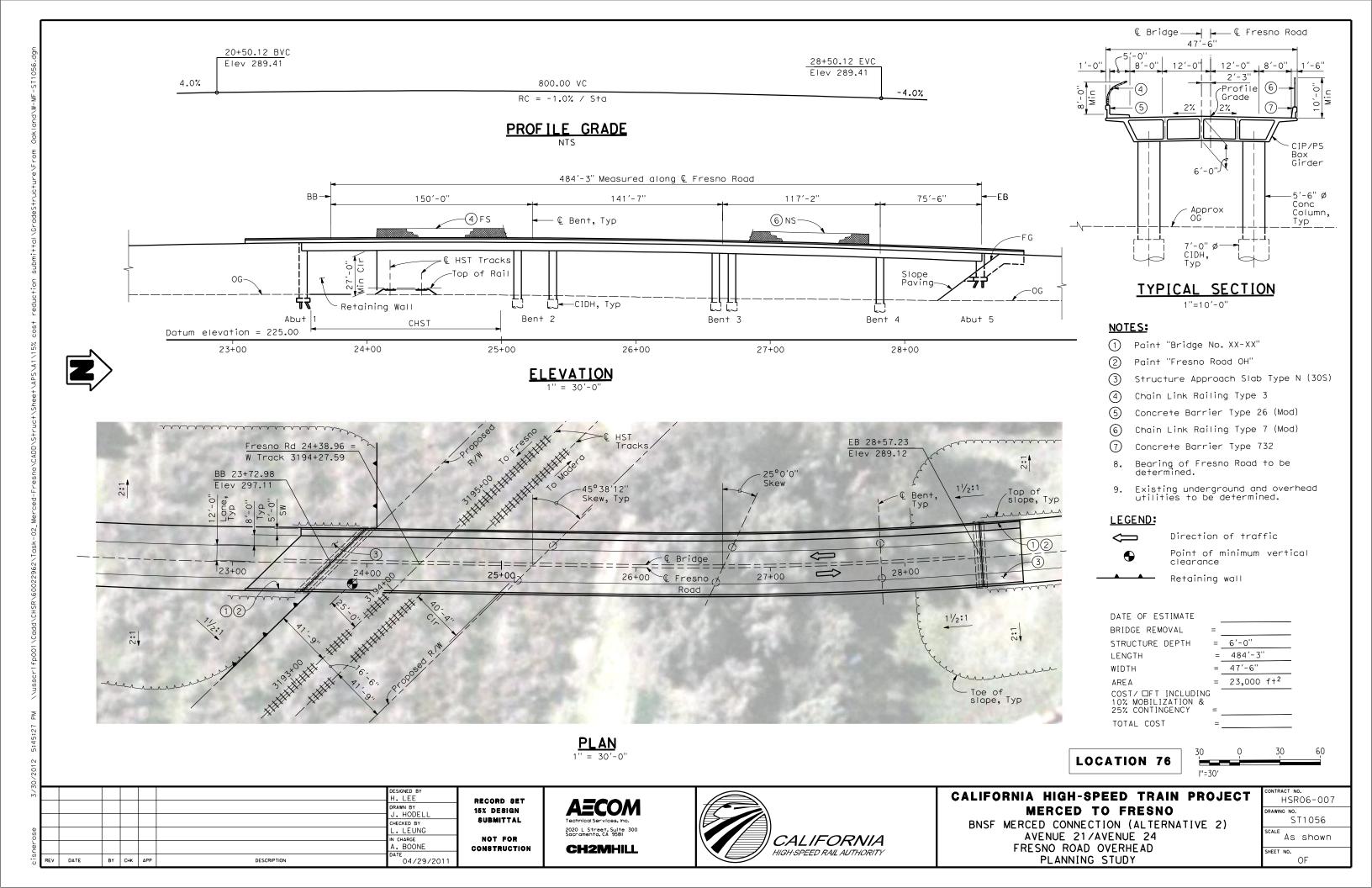
AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 958II CH2MHILL

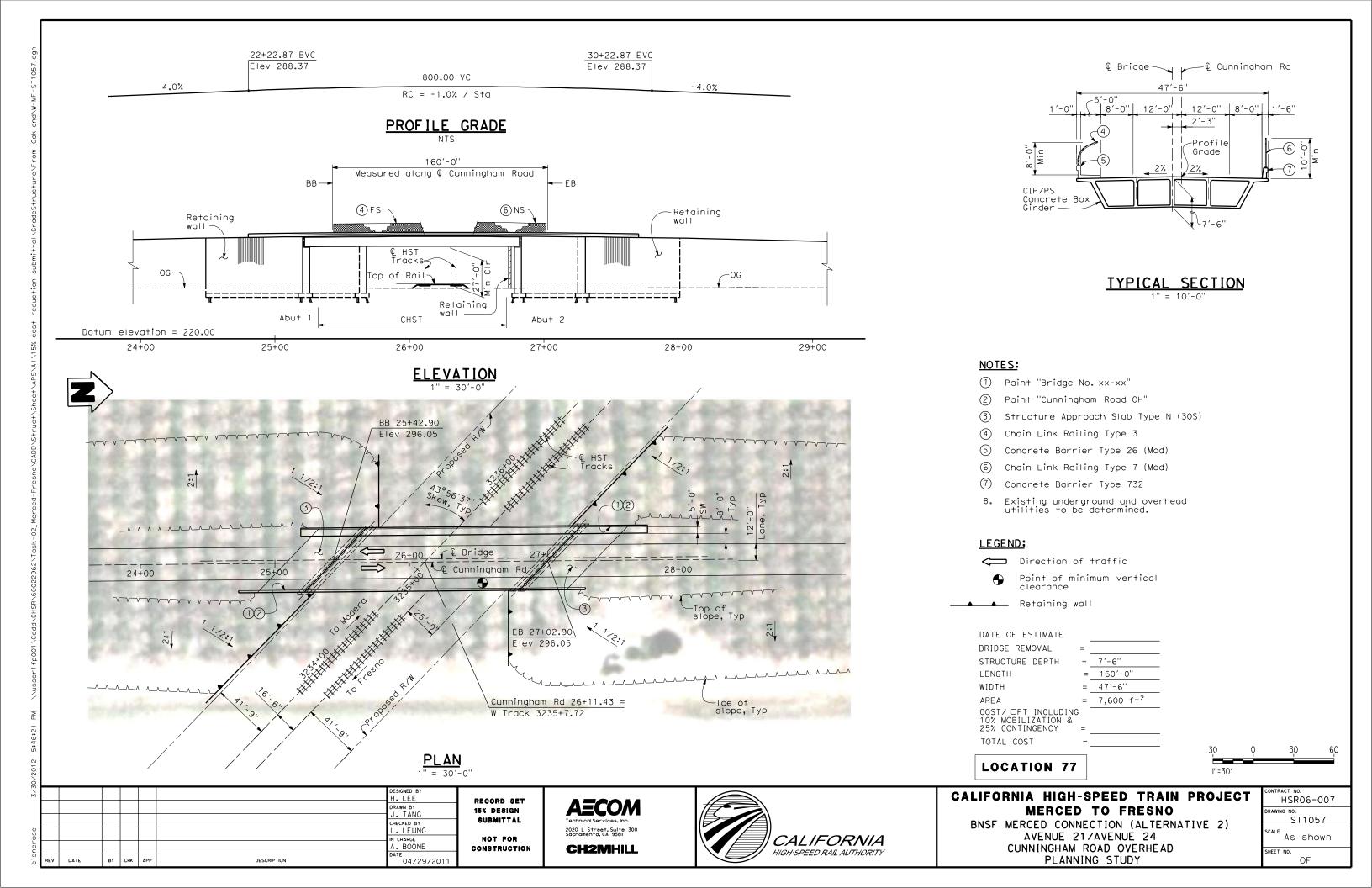


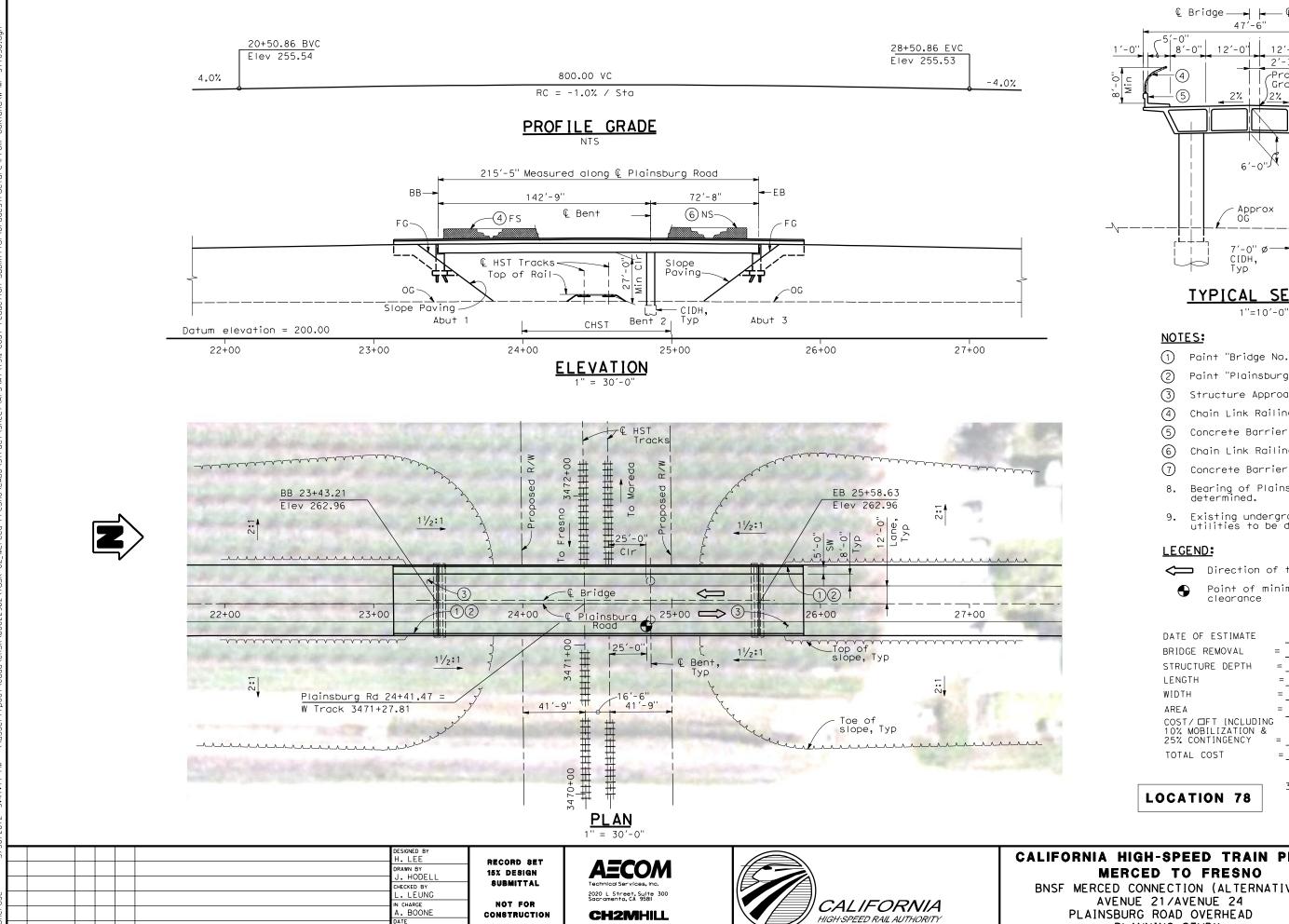
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION (ALTERNATIVE 2)
AVENUE 21/AVENUE 24
LE GRAND ROAD OVERHEAD
PLANNING STUDY

HSR06-007
DRAWING NO. ST1055
as shown
SHEET NO. OF





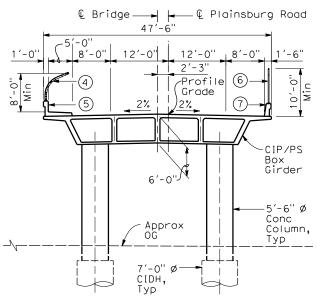


DATE

BY CHK APP

DESCRIPTION

04/29/2011

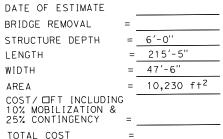


TYPICAL SECTION

- 1) Paint "Bridge No. XX-XX"
- Paint "Plainsburg Road OH"
- Structure Approach Slab Type N (30S)
- Chain Link Railing Type 3
- Concrete Barrier Type 26 (Mod)
- Chain Link Railing Type 7 (Mod)
- Concrete Barrier Type 732
- Bearing of Plainsburg Road to be determined.
- 9. Existing underground and overhead utilities to be determined.

Direction of traffic

Point of minimum vertical

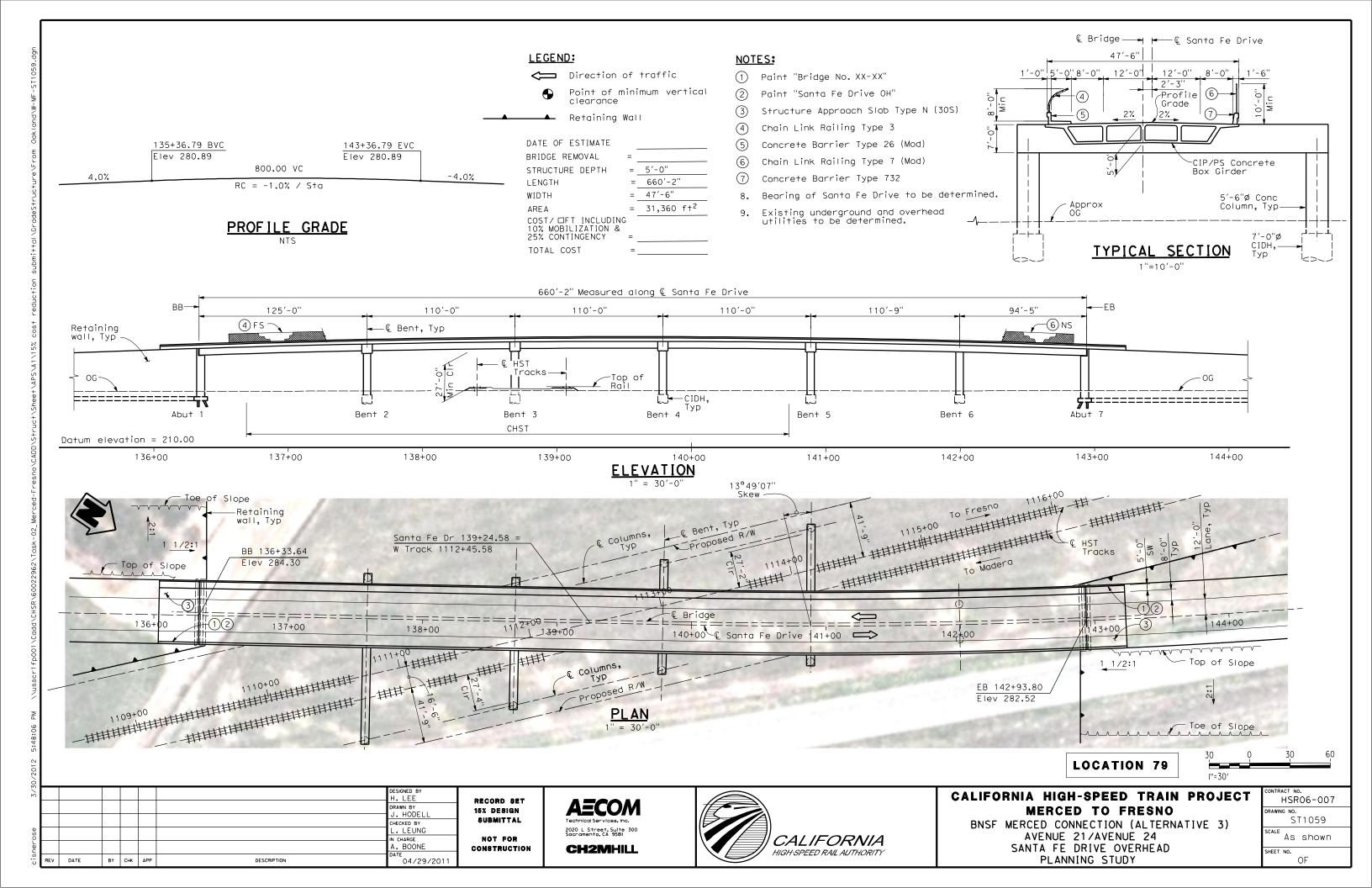


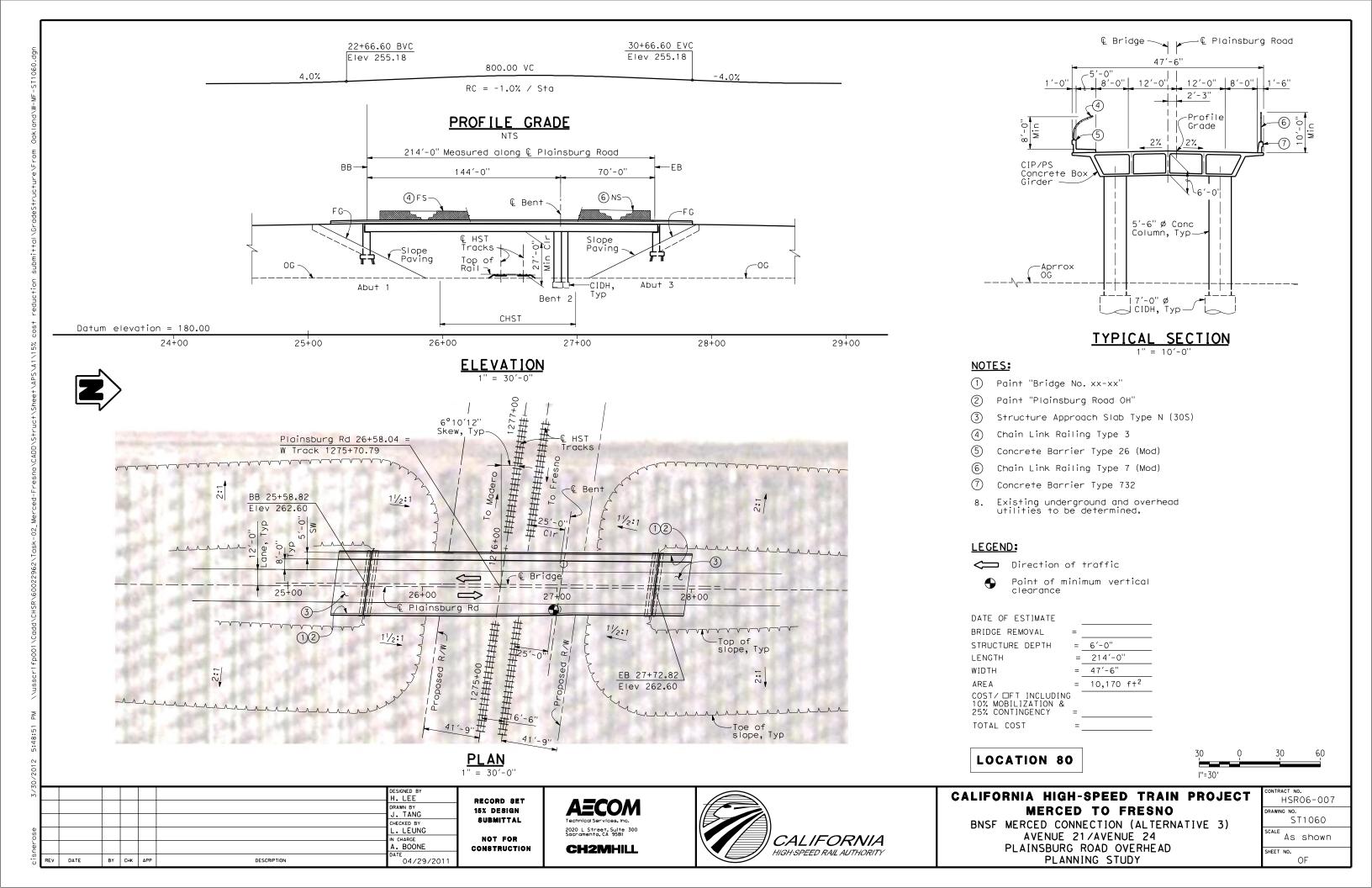


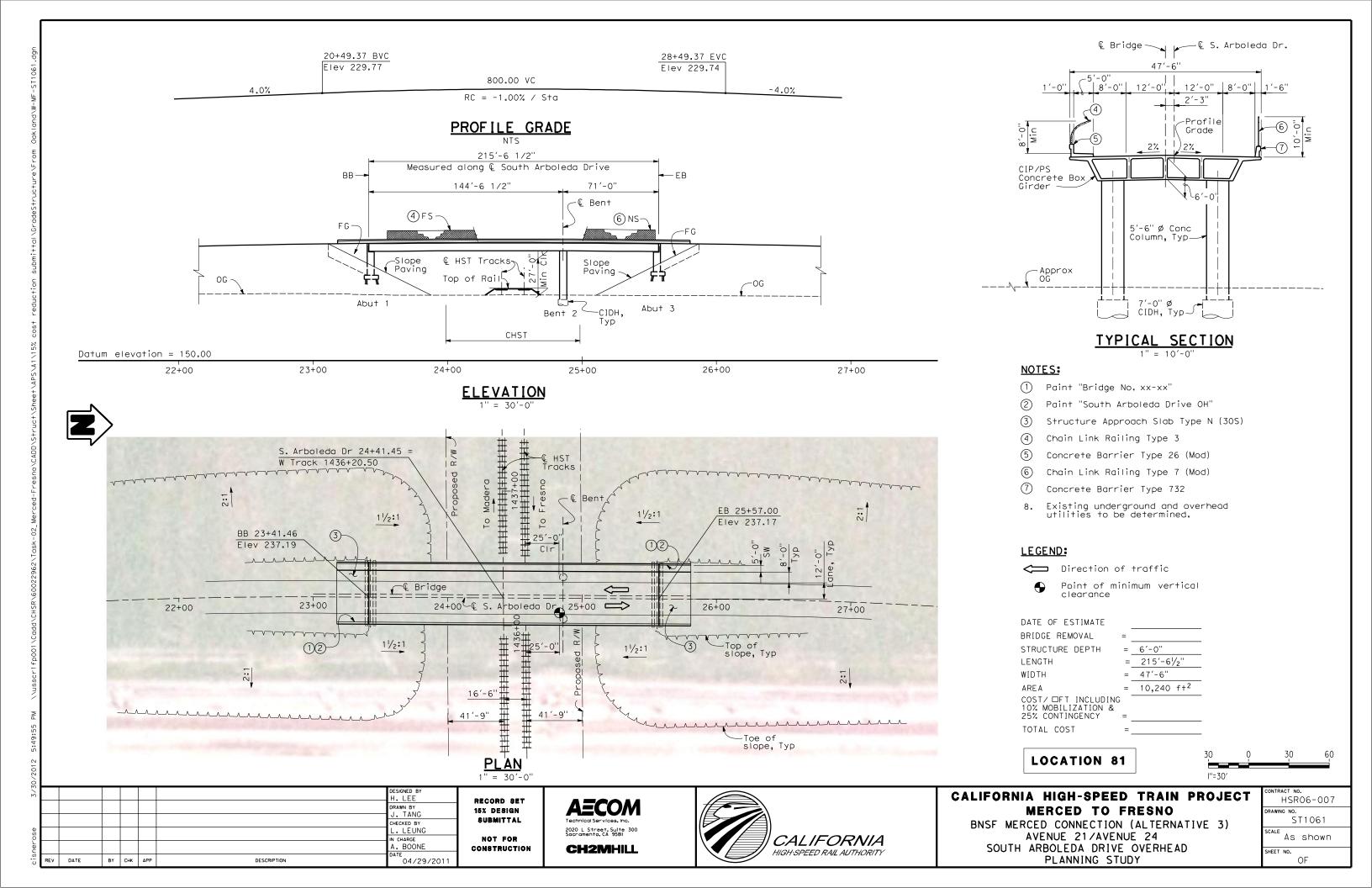
CALIFORNIA HIGH-SPEED TRAIN PROJECT

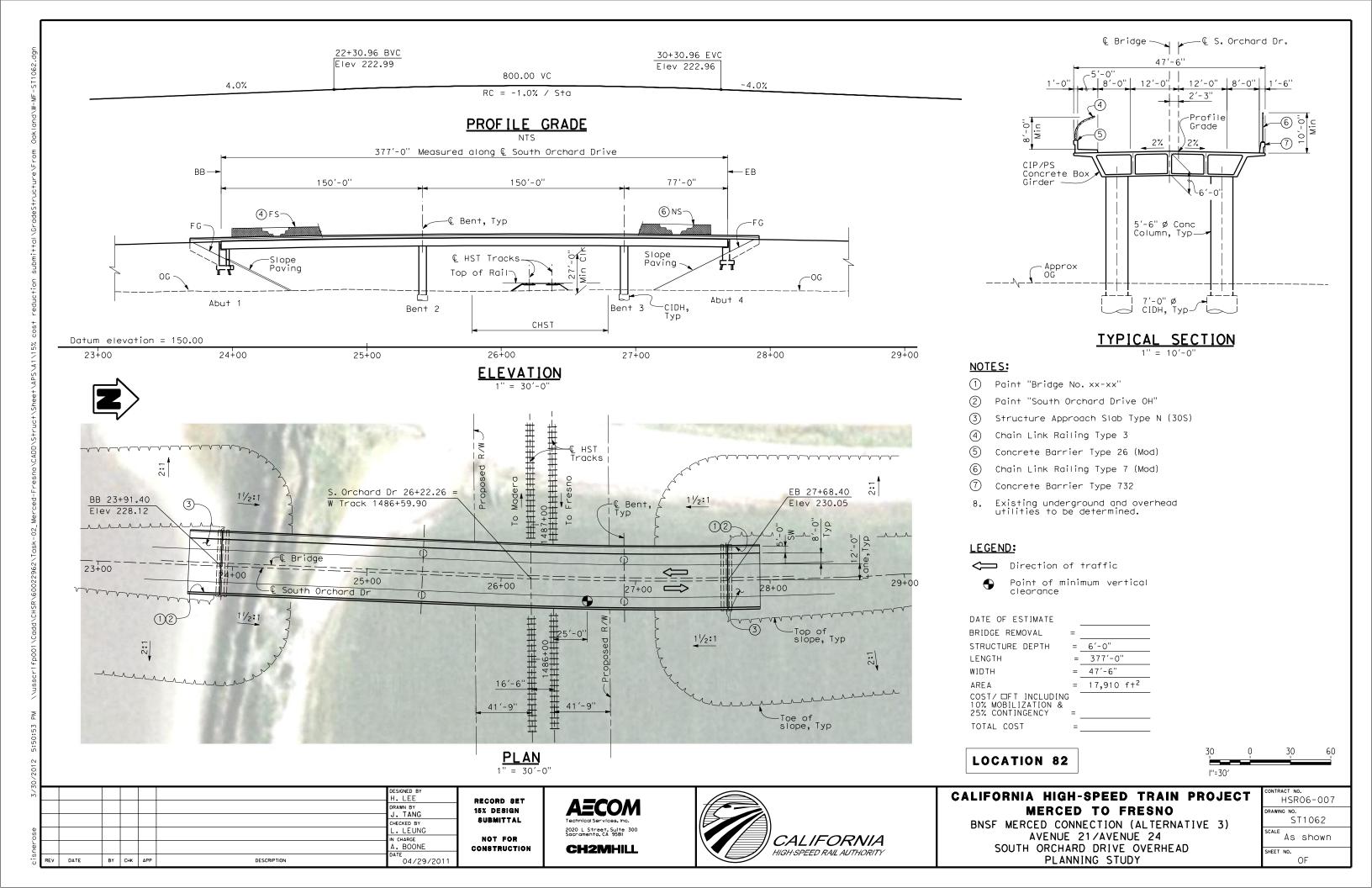
BNSF MERCED CONNECTION (ALTERNATIVE 2) PLANNING STUDY

CONTRACT NO. HSRO6-007					
DRAWING NO. ST1058					
scale As shown					
SHEET NO. OF					









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LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITL LINE 6
				GENERAL		
		B0110-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 1
		B0112-A	BNSF - AVE 24 WYE	GENERAL	ABBREVIATIONS, SYMBOLS & NOTES	
		B0117-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 1 OF 4
		B0118-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 2 OF 4
		B0119-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 3 OF 4
		B0120-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 4 OF 4
		CT0121-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	GRADE HIGHWAY	SHEET 1 OF 2
		CT0122-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	GRADE HIGHWAY	SHEET 2 OF 2
		CT5000-A	BNSF - AVE 24 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HAP	NDLING APPROACH	SHEET 1 OF 2
		CT5000-B	BNSF - AVE 24 WYE	GENERAL STAGE CONSTRUCTION & TRAFFIC HAN	NDLING APPROACH	SHEET 2 OF 2
	•	•	A1 -	- AVE 24 WYE (LAYOUT)		
43		CT2001-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 1 OF 3
43		CT2002-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 2 OF 3
43		CT2003-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	LAYOUT	SHEET 3 OF 3
44		CT2004-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	LAYOUT	SHEET 1 OF 3
44		CT2005-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	LAYOUT	SHEET 2 OF 3
44		CT2006-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	LAYOUT	SHEET 3 OF 3
45		CT2010-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 1 OF 3
45		CT2011-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 2 OF 3
45		CT2012-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 3 OF 3
45		CT2010R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 1 OF 3
45		CT2011R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 2 OF 3
45		CT2012R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	LAYOUT	SHEET 3 OF 3
	•		A1 - AVE 24 V	WYE (SUPERELEVATION TEMPL.	ATES)	
		CT0996-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 1 OF 4
		CT0997-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 2 OF 4
		CT0998-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 3 OF 4
		CT0999-A	BNSF - AVE 24 WYE	GRADE SEPARATION	SUPERELEVATION TEMPLATE	SHEET 4 OF 4
	•	•	A1 -	- AVE 24 WYE (PROFILES)		
43		CT3001-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 1 OF 3
43		CT3002-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	PROFILE	SHEET 2 OF 3
43		CT3003-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - AVENUE 8	PROF ILE	SHEET 3 OF 3
44		CT3004-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	PROF ILE	SHEET 1 OF 3
44		CT3005-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	PROFILE	SHEET 2 OF 3
44		CT3006-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 145	PROFILE	SHEET 3 OF 3
45		CT3010-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 1 OF 3
45		CT3011-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 1 OF 3
45		CT3012-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 2 OF 3
45		CT3010R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 2 OF 3
45		CT3011R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 3 OF 3
45		CT3012R-A	BNSF MAIN LINE - AVE 24 WYE	GRADE SEPARATION - SR 233	PROFILE	SHEET 3 OF 3

07/								
4/5							DESIGNED BY R. GIBSON	
							DRAWN BY F.DEMARCO	-
_							CHECKED BY A. SILVER	
arcor							IN CHARGE A. BOONE	,
DeMar	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 07/27/2011	

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 GENERAL INDEX OF DRAWINGS SHEET 1 OF 1

CONTRACT NO.
HSR06-007
DRAWING NO.
B0110-A
SCALE
NONE
SHEET NO.
OF

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—--TC———--

—— G16 ———

 \times

--- SD ---------

—-- TC ———--

— P12 ——

— (он) ——

PΙ POINT OF INTERSECTION OF TWO TANGENTS

POC POINT ON CURVE POT POINT ON TANGENT

POINT OF REVERSE CURVES РΤ POINT OF TANGENCY

R RADIUS OF CURVATURE IN FEET

DESIGN VELOCITY IN MILES PER HOUR

VERTICAL

PVC POINT OF VERTICAL CURVE (BEGINNING OF CURVE) PVI POINT OF VERTICAL INTERSECTION (OF TANGENTS) PVT POINT OF VERTICAL TANGENCY (ENDING OF CURVE)

٧C VERTICAL CURVE

MISCELLANEOUS

BEG BEGIN BLVD BOULEVARD CENTER LINE Œ CENTERLINE, CLASS CL CLR CLEAR COL COLUMN DWG DRAWING EQUATION ΕQ EXIST(E) EXISTING INCH ΙN LT LEFT MAXMAXIMUM MIN MINIMUM NORTH Ν NB NORTH BOUND NTS NOT TO SCALE OG ORIGINAL GROUND O/H OH OVERHEAD PG&E PACIFIC GAS & ELECTRIC

PGL, FG PROFILE GRADE LINE RAILROAD

RD ROAD R/W RIGHT OF WAY RT

RIGHT SS SANITARY SEWER

SHT SHEET ST STREET STD STANDARD SD STORM DRAIN STRUCT, STR STRUCTURE

> TELEPHONE (OH) OVERHEAD LINE (UG) UNDERGROUND LINE

TOR TOP OF RAIL ΤK TRACK

TYP TYPICAL

TBD TO BE DETERMINED TELECOMMUNICATIONS FIBER TF

OPTIC

V VERT VERTICAL WATER, WEST MATCH LINE

HST TRACK

PROPOSED HST RIGHT-OF-WAY

FREIGHT/PASSENGER TRACK - EXISTING

EXISTING EXISTING

RIGHT-OF-WAY BRIDGE FEATURES

RETAINING WALLS

ORIGINAL GROUND

GAS LINE (16")

COMMUNICATION LINE

WATER LINE

FIBER OPTIC LINE

ELECTRICAL LINE

ELECTRICAL TOWER

SEWER LINE

STORM DRAIN LINE

FUEL LINE

TELEPHONE LINE

PETROLEUM LINE (12")

OVERHEAD

NORTH ARRROW

PVI

R. LI DRAWN BY A. TRINH CHECKED BY J. ZANDIAN N CHARGE N. BOONE REV DATE BY CHK APP DESCRIPTION 07/20/2011

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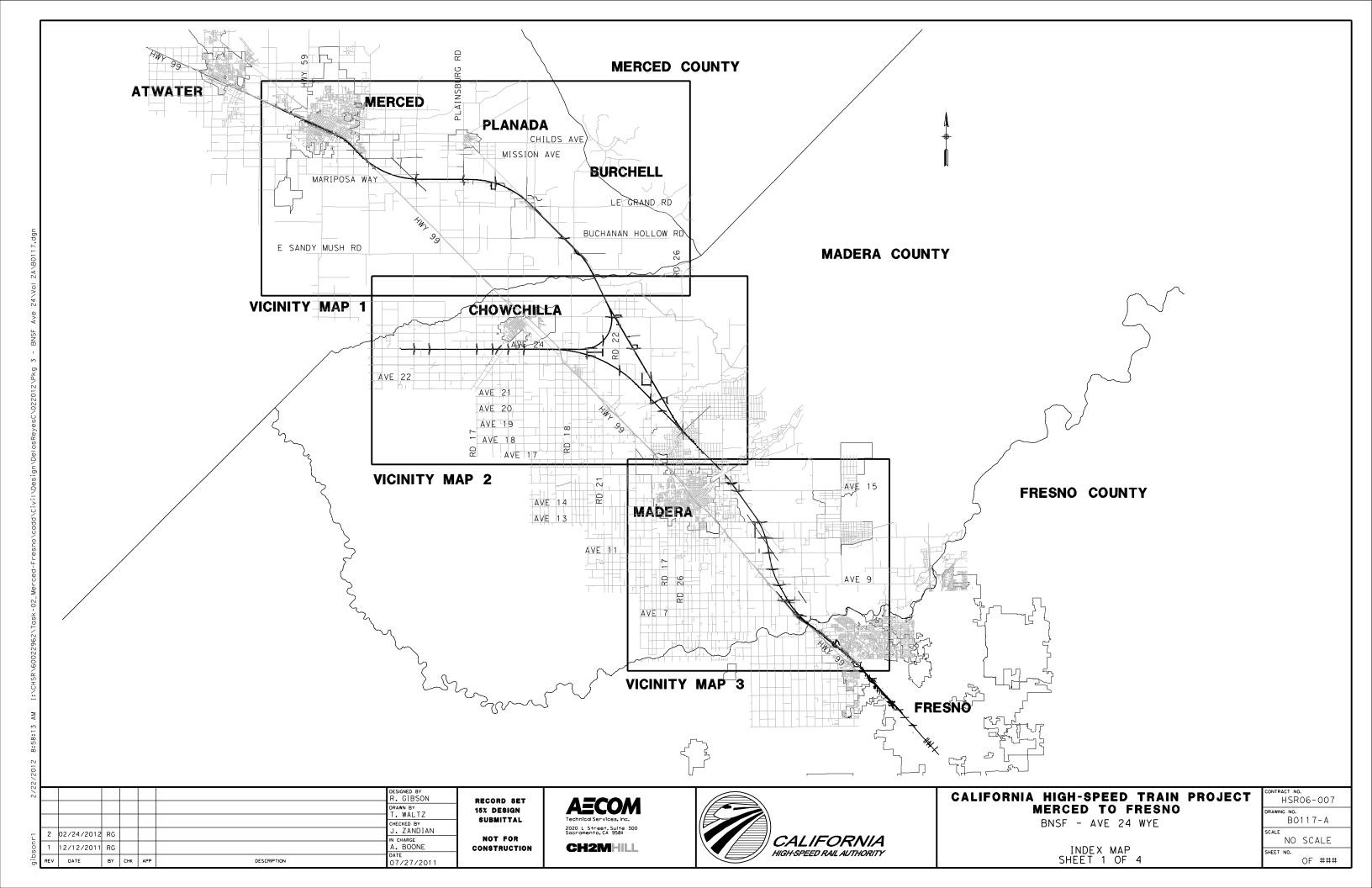


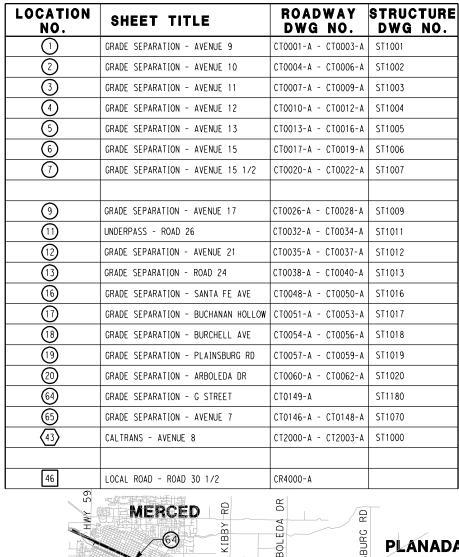
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 WYE **GENERAL** ABBREVIATIONS, SYMBOLS & NOTES SHEET 1 OF 1

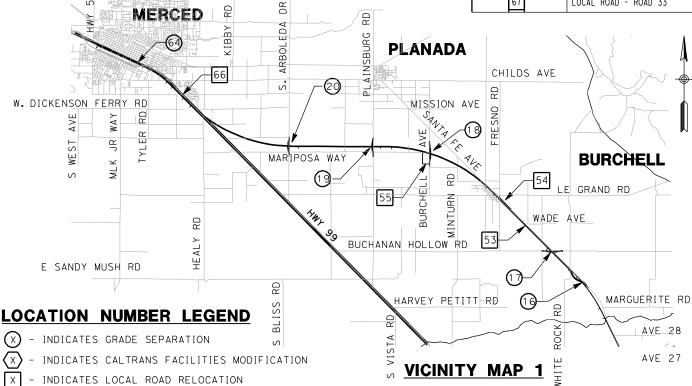
NTRACT NO. HSRO6-007 RAWING NO. BO112-A NO SCALE

OF

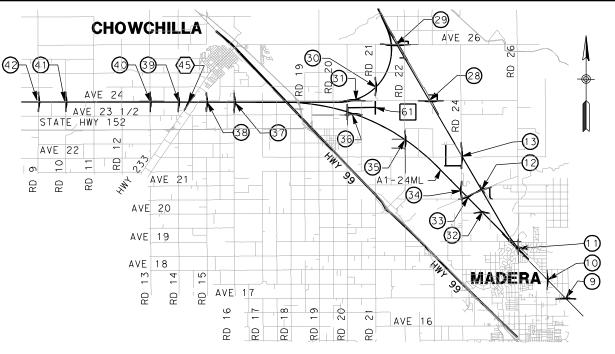




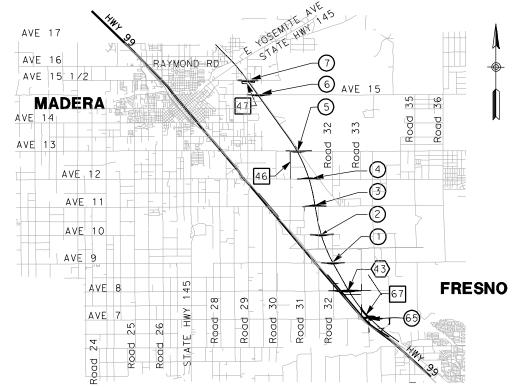
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
47	LOCAL ROAD - ROAD 29	CR4001-A	
53	LOCAL ROAD - SANTA FE AVE	CR4007-A - CR4009-A	
54	LOCAL ROAD - SANTA FE AVE (SOUTH)	CR4009-A	
55	LOCAL ROAD - BURCHELL RD	CR4010-A	
28	GRADE SEPARATION - AVENUE 24	CT0100-A - CT0102-A	ST1030
29	GRADE SEPARATION - AVENUE 26	CT0103-A - CT0106-A	ST1031 - ST1032
30	GRADE SEPARATION - ROAD 21	CT0107-A - CT0109-A	ST1033
31)	GRADE SEPARATION - AVENUE 24	CT0110-A - CT0112-A	ST1034
32)	GRADE SEPARATION - AVENUE 20	CT0113-A - CT0115-A	ST1035
33	GRADE SEPARATION - AVENUE 20 1/2	CT0116-A - CT0118-A	ST1036 - ST1037
34)	GRADE SEPARATION - ROAD 24	CT0119-A - CT0121-A	ST1038 - ST1039
35)	GRADE SEPARATION - ROAD 22	CT0122-A - CT0124-A	ST1040
<u>36</u>	GRADE SEPARATION - AVENUE 23 1/2	CT0125-A - CT0127-A	ST1041
37	GRADE SEPARATION - ROAD 16	CT0128-A - CT0130-A	ST1042
38)	GRADE SEPARATION - ROAD 15	CT0131-A - CT0133-A	ST1043
39	GRADE SEPARATION - ROAD 14	CT0134-A - CT0136-A	ST1044
40	GRADE SEPARATION - ROAD 13	CT0137-A - CT0139-A	ST1045
41	GRADE SEPARATION - ROAD 10	CT0140-A - CT0142-A	ST1046
42	GRADE SEPARATION - ROAD 9	CT0143-A - CT0145-A	ST1047
4 5	CALTRANS - SR 233	CT0210-A - CT0212-A	ST1150
61	LOCAL ROAD - AVENUE 23 1/2	CR4100-A - CR4101-A	
66	LOCAL ROAD - PROP W. FRONTAGE RD	CR4016-A - CR4017-A	
67	LOCAL ROAD - ROAD 33	CR4018-A	



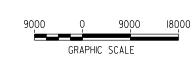
CTURES



VICINITY MAP 4



VICINITY MAP 3



FOR	ROADWAY	STRUCTUR
	SEE STRU	JCTURAL
	INDEX M	IAPS

	_						
						DESIGNED BY R. GIBSON	
						DRAWN BY T. WALTZ	
						CHECKED BY J. ZANDIAN	İ
2	02/24/2012	RG				IN CHARGE	İ
1	12/12/2011	RG				A. BOONE	l
REV	DATE	ВҮ	СНК	APP	DESCRIPTION	DATE 07/27/2011	

RECORD SET
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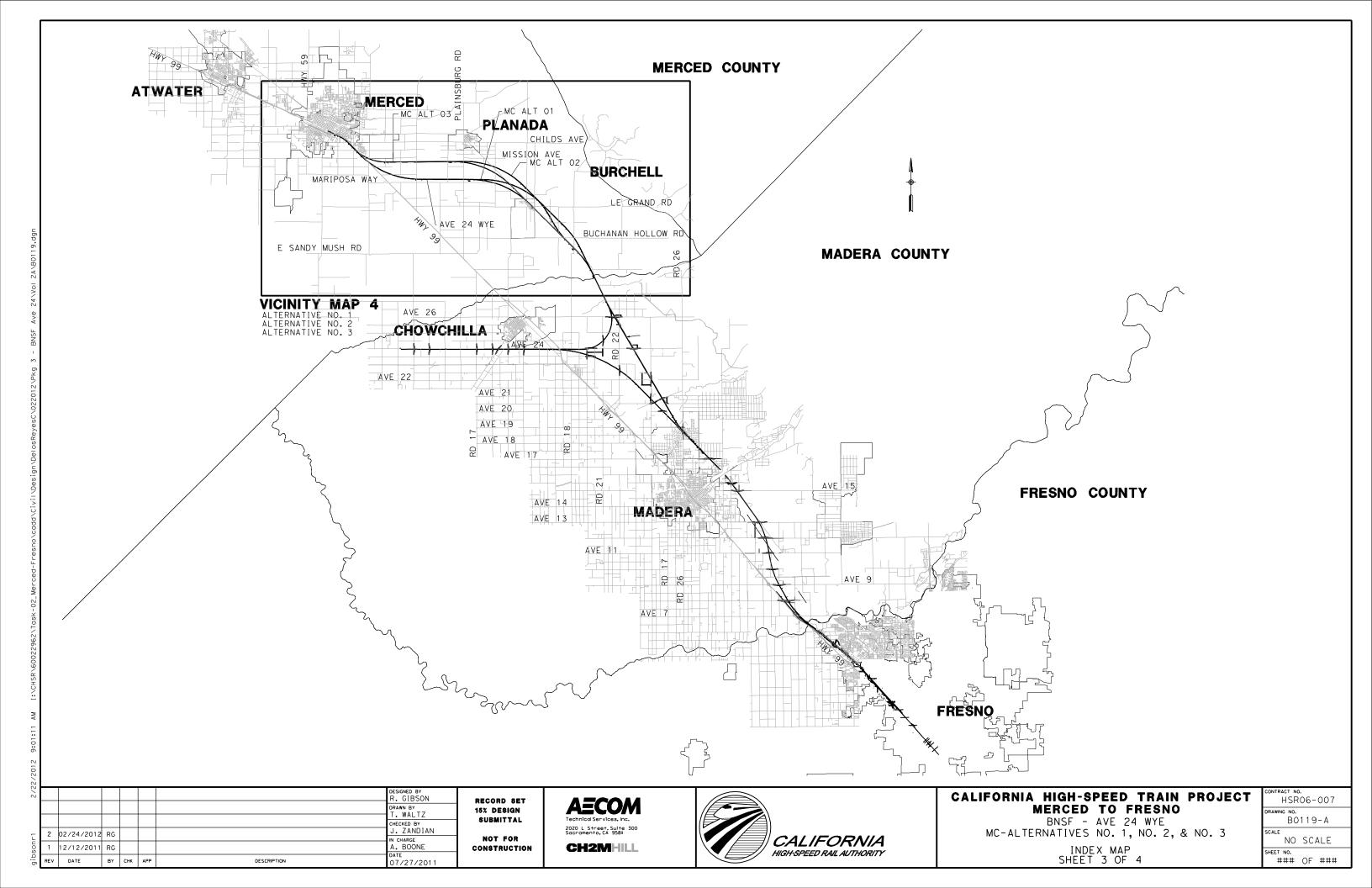
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 WYE

INDEX MAP SHEET 2 OF 4

	act no HSR	06-007	
DRAWIN	IG NO.		
	RΛ	118-A	
	DU	I I O - A	
SCALE			
	AS	SHOWN	
		01101111	
CHEET	NO		

OF ###



						DESIGNED BY R. GIBSON DRAWN BY
						T. WALTZ CHECKED BY J. ZANDIAN
						IN CHARGE A. BOONE DATE
REV	DATE	BY	СНК	APP	DESCRIPTION	07/27/2011

LOCATION

NO.

(71)

(72)

(73)

(74)

(75)

(76)

(77)

(78)

(79)

(80)

(81)

82)

SHEET TITLE

GRADE SEPARATION - WHITE ROCK RD

GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. CUNNINGHAM RD

GRADE SEPARATION - S. BURCHELL AVE

GRADE SEPARATION - LE GRAND RD

GRADE SEPARATION - S. FRESNO RD

GRADE SEPARATION - S. CUNNINGHAM RD

GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - S. SANTA FE AVE

GRADE SEPARATION - PLAINSBURG RD

GRADE SEPARATION - S. ARBOLEDA RD

GRADE SEPARATION - S. ORCHARD DR

LOCAL ROAD - WHITE ROCK

LOCAL ROAD - BURCHELL

RECORD SET 15% DESIGN SUBMITTAL NOT FOR

CONSTRUCTION

ROADWAY STRUCTURE

ST1051

ST1052

ST1053

ST1054

ST1055

ST1056

ST1057

ST1058

ST1059

ST1060

DWG NO.

DWG NO.

CT0203-A - CT0205-A

T0206-A - CT0208-A

T0209-A - CT0211-A

T0212-A - CT0214-A

T0250-A - CT0252-A

T0253-A - CT0255-A

T0256-A - CT0258-A

T0259-A - CT0261-A

T0300-A - CT0302-A

T0303-A - CT0305-A

CR4200-A - CR4201-A

CR4202-A

CTO306-A - CTO308-A ST1061

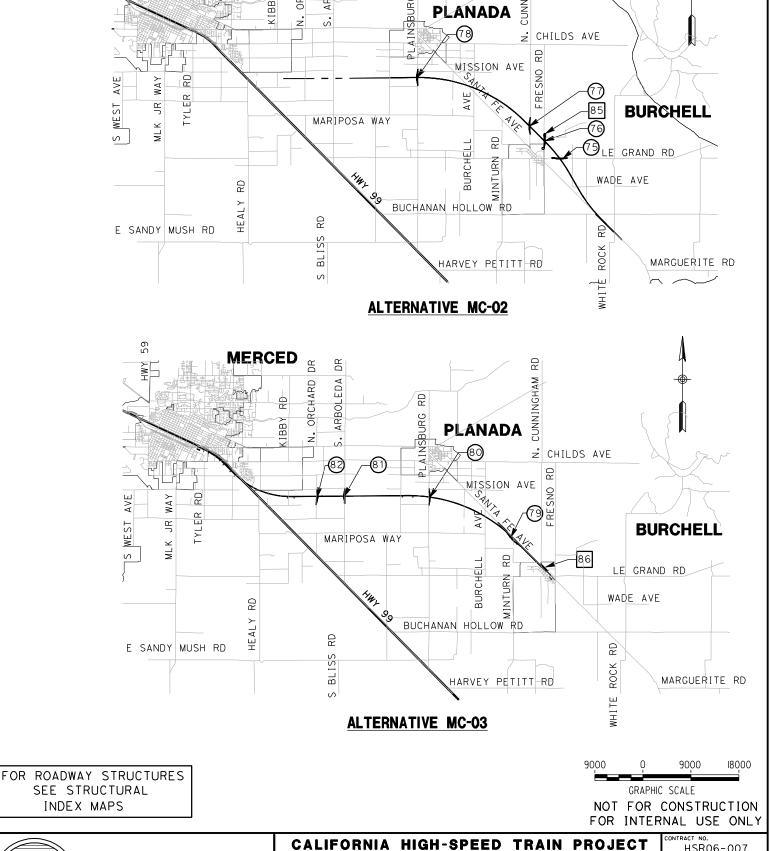
CTO309-A - CTO311-A ST1062

CT0200-A - CT0202-A ST1050





MERCED



MERCED TO FRESNO

BNSF - AVE 24 WYE

ALTERNATIVES NO. 1, NO. 2, & NO. 3

INDEX MAP

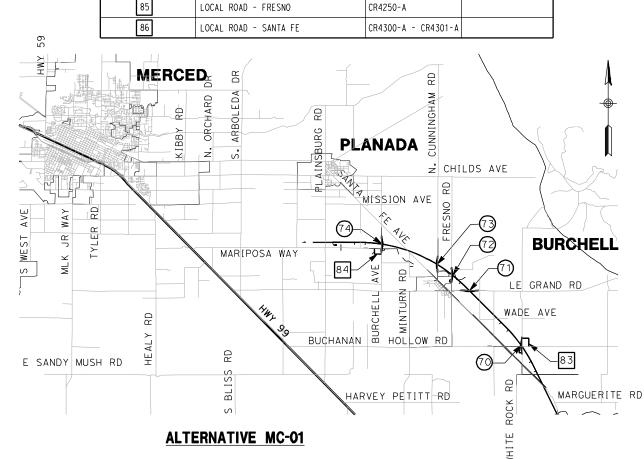
SHEET 4 OF 4

HSR06-007

B0120-A

NO SCALE

OF



LOCATION NUMBER LEGEND

(X) - INDICATES GRADE SEPARATION X - INDICATES CALTRANS FACILITIES MODIFICATION

X - INDICATES LOCAL ROAD RELOCATION

STRUCTURAL SECTIONS:

HMA TYPE A AB CLASS 2

CAST IN PLACE / PRESTRESSED BOX GIRDER (6' STRUCTURE DEPTH)

EXISTING

ROAD⊛

DATE BY CHK APP DESCRIPTION 04/29/2011



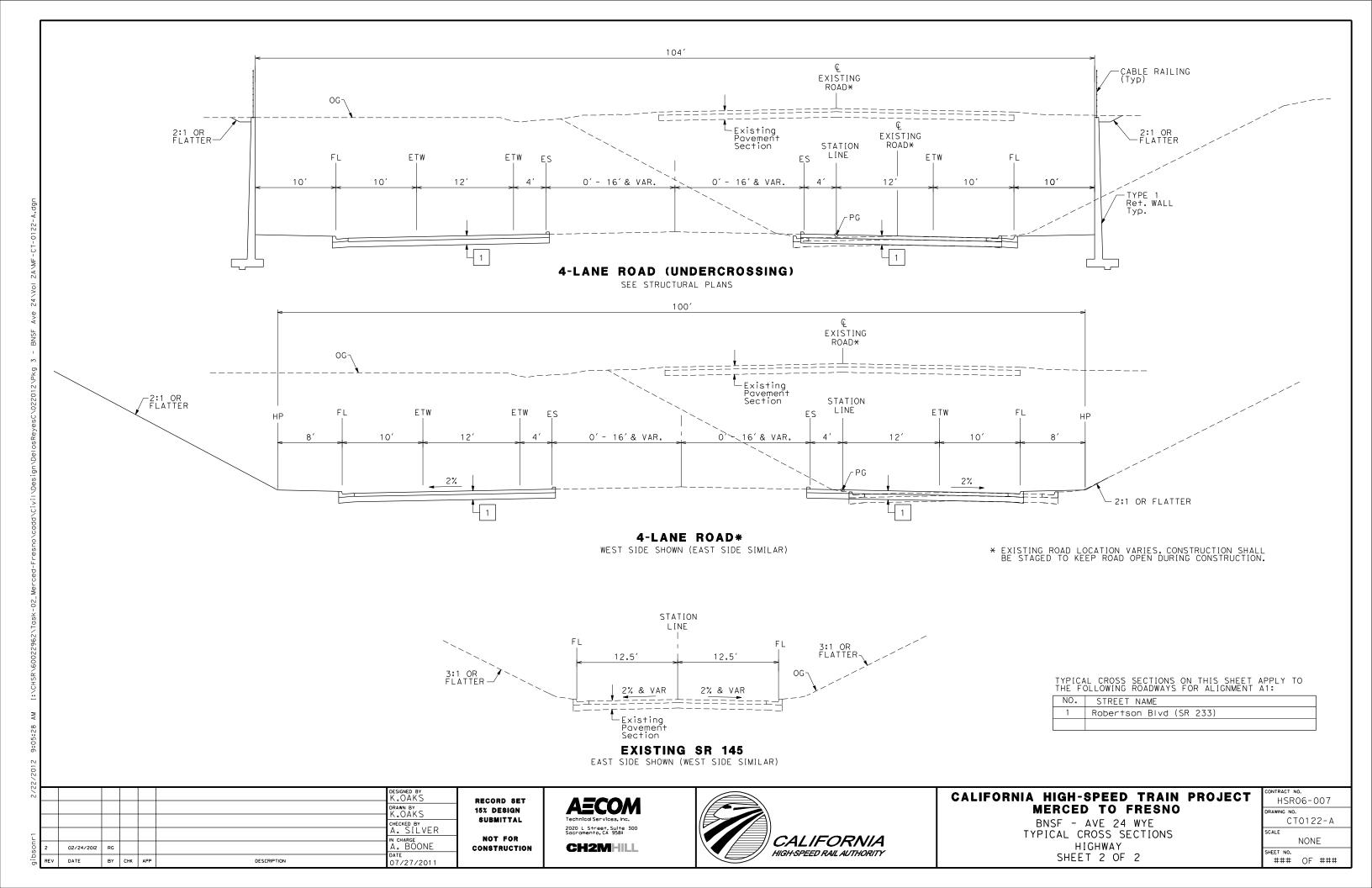
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

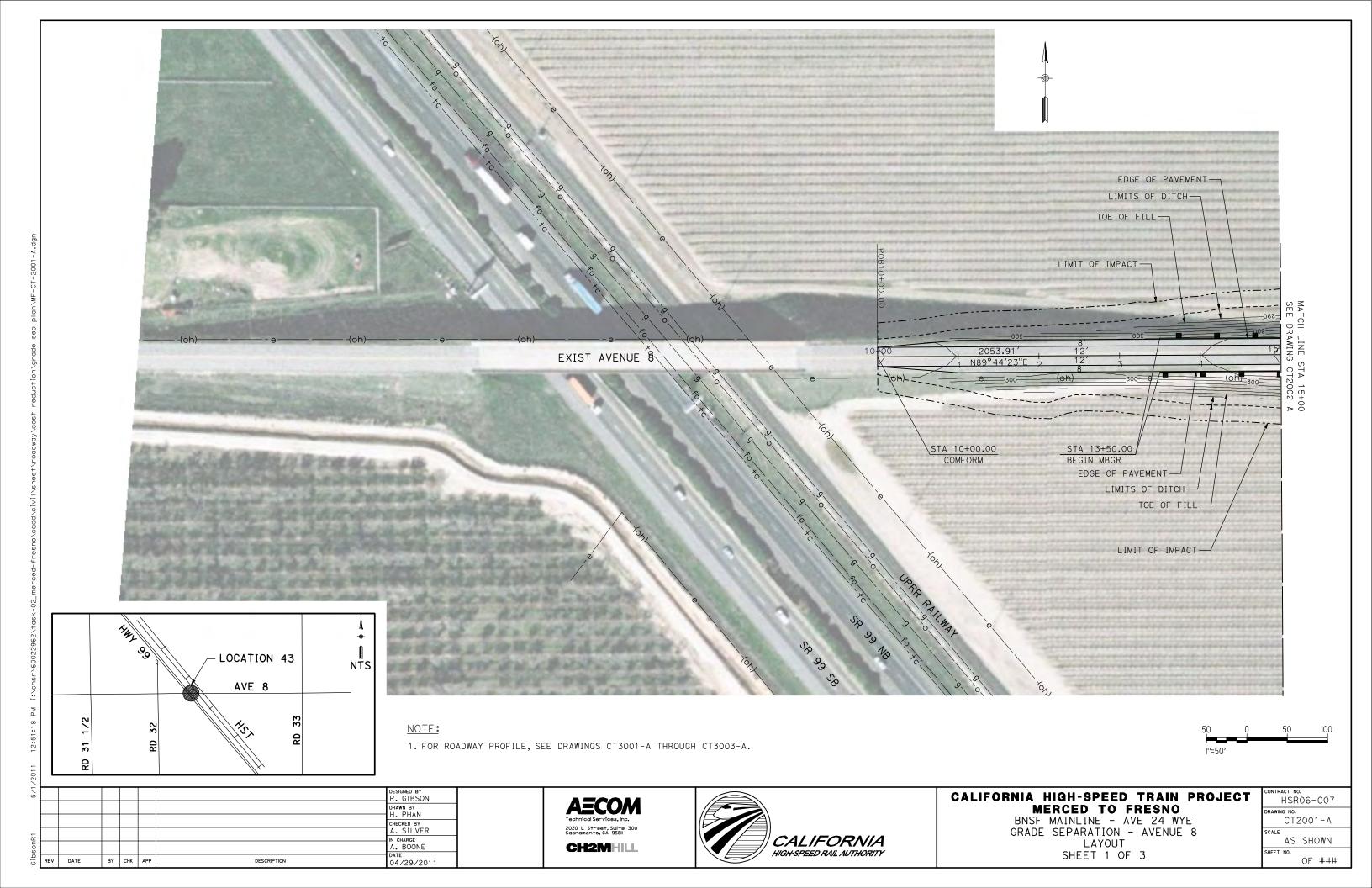
BNSF - AVE 24 WYE TYPICAL CROSS SECTIONS HIGHWAY SHEET 1 OF 1

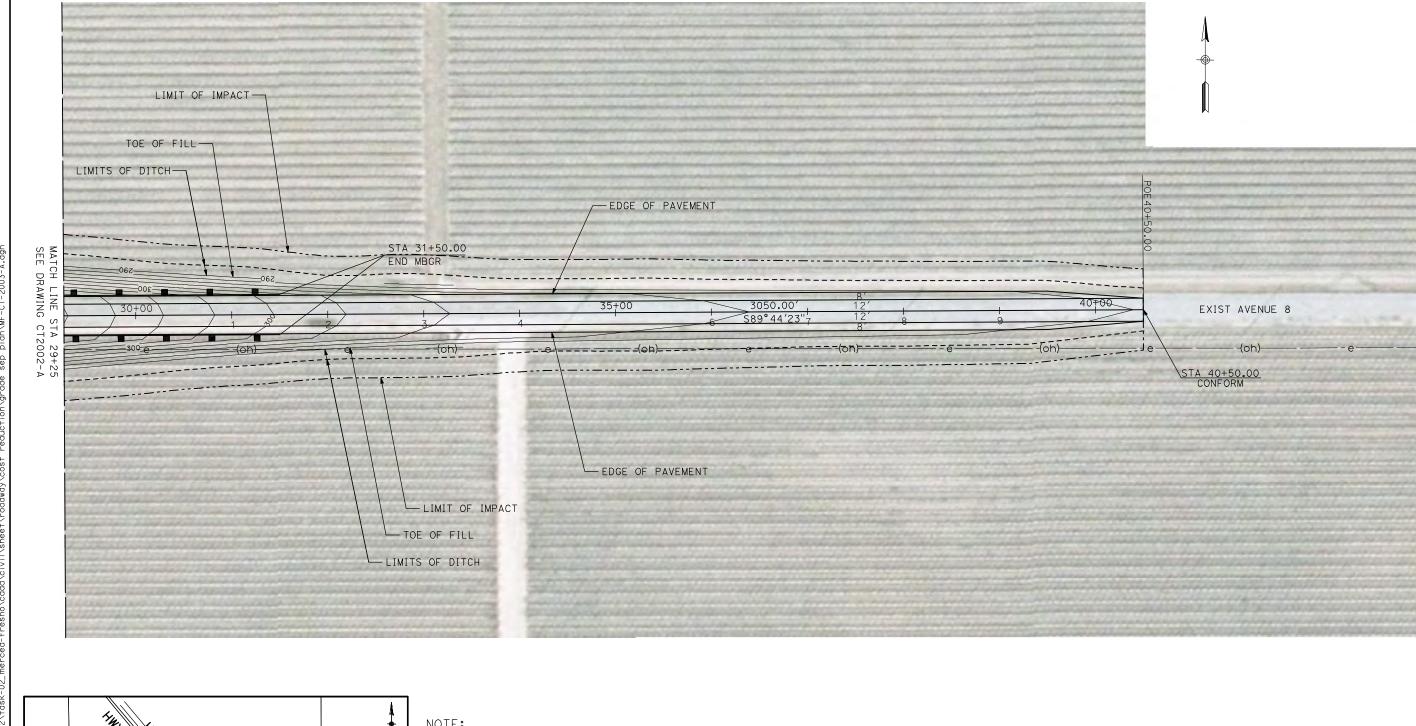
HSR06-007 CT0121-A

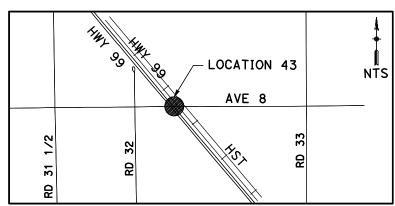
-Exist Pavement Section

NONE ### OF ###



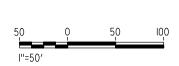






NOTE:

1. FOR ROADWAY PROFILE, SEE DRAWINGS CT3001-A THROUGH CT3003-A.



						DESIGNED BY R. GIBSON	Γ
						DRAWN BY H. PHAN	l
						CHECKED BY A. SILVER	١
						IN CHARGE A. BOONE	
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011	

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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - AVENUE 8 LAYOUT SHEET 3 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO.
CT2003-A
SCALE

AS SHOWN
SHEET NO.
OF

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE BY CHK APP DESCRIPTION 04/29/2011

LOCATION 45

NTS

HST

AVENUE 24

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GRADE SEPARATION - SR 233 LAYOUT SHEET 1 OF 3

T	CONTRA		06-007	
	DRAWIN		2010-A	
	SCALE	AS	SHOWN	

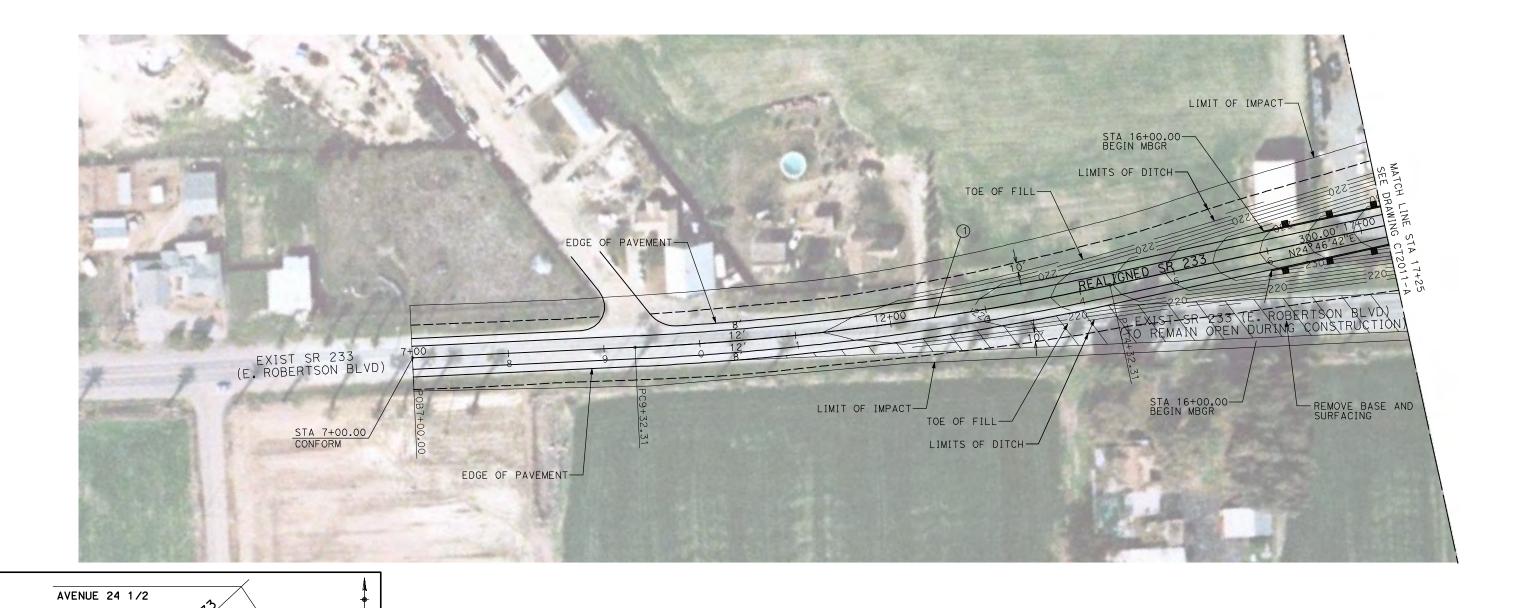
BNSF MAIN LINE (AVE 24 WYE) ALT 1

CURVE DATA

250.58′ 500.00′ 45 MPH

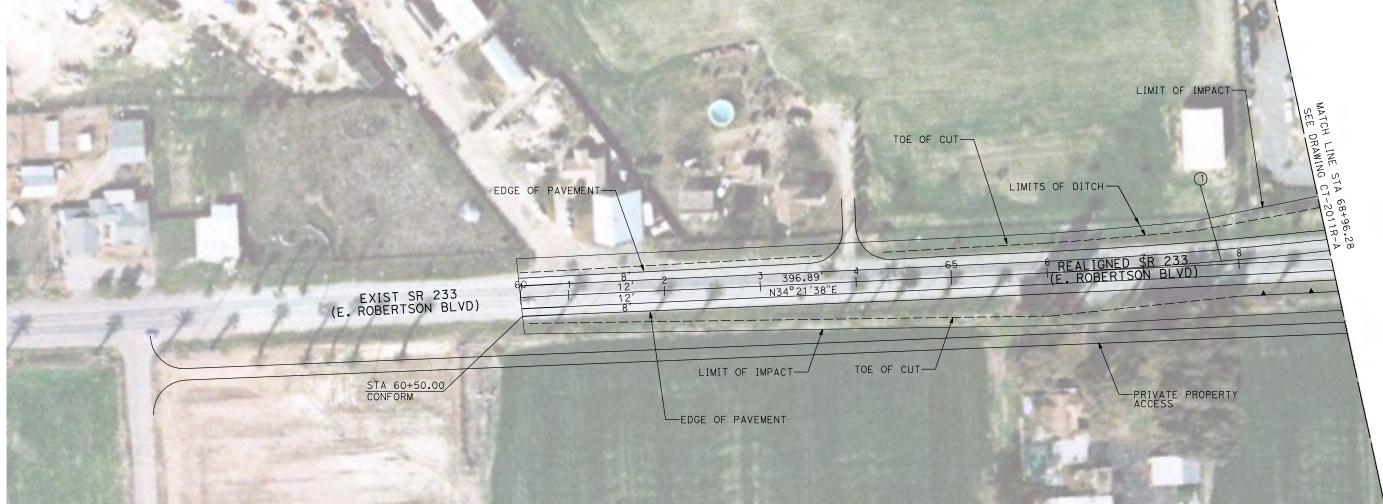
NO. R Δ
1 3000.00′ 9°32′57"

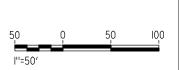
CONTRACT NO. HSR06-007					
DRAWING NO. CT2010-A					
AS SHOWN					
SHEET NO. ###					



CURVE DATA
 NO.
 R
 ∆
 T
 L
 V

 ①
 3000.00′
 9°32′57″
 250.58′
 500.00′
 45 MPH





CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE CONSTRUCTION

04/29/2011

BY CHK APP

DESCRIPTION

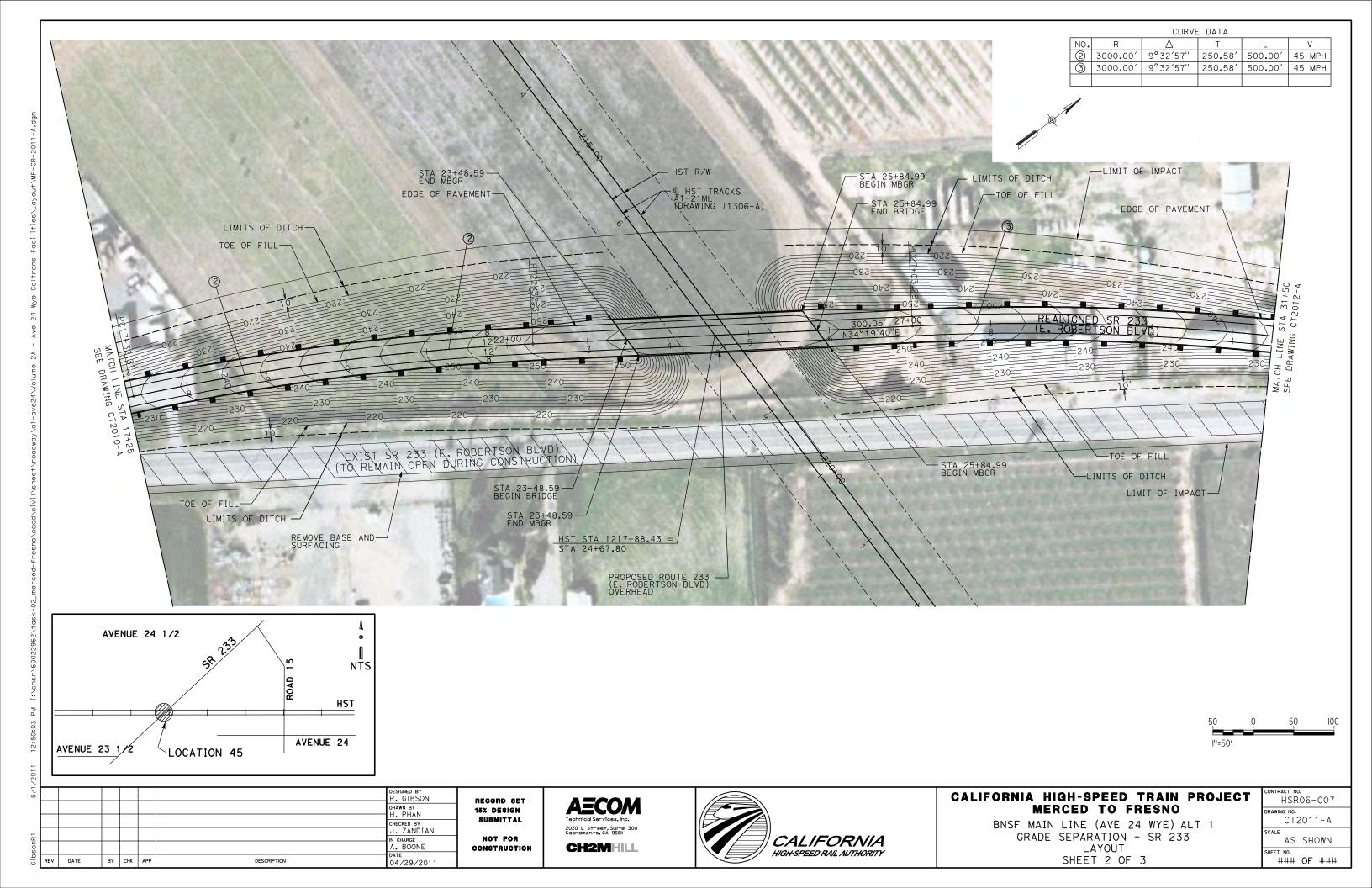
2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL

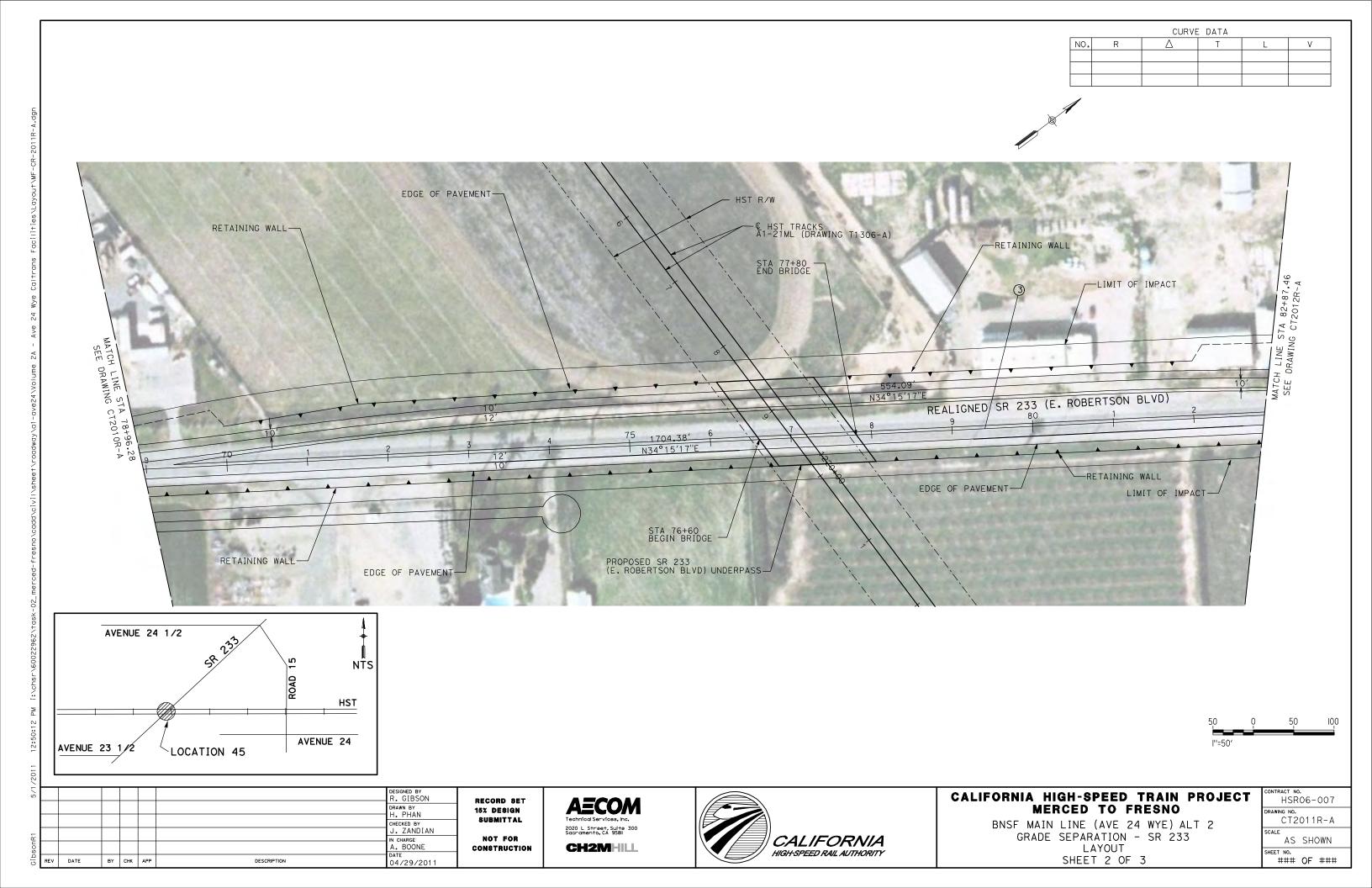


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE (AVE 24 WYE) ALT 2 GRADE SEPARATION - SR 233 LAYOUT SHEET 1 OF 3

CONTRACT NO.
HSR06-007
DRAWING NO. CT2010R-A
AS SHOWN
SHEET NO. ### OF ###





AVENUE 24 1/2

AVENUE 23 1/2

| DESIGNED BY R. GIBSON | R. GIBSON | DRAWN BY H. PHAN | CHECKED BY J. ZANDIAN | N. CHECKED BY J. ZANDIAN | N. CHARGE A. BOONE | A. BOONE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DA

LOCATION 45

NTS

HST

AVENUE 24

15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

RECORD SET

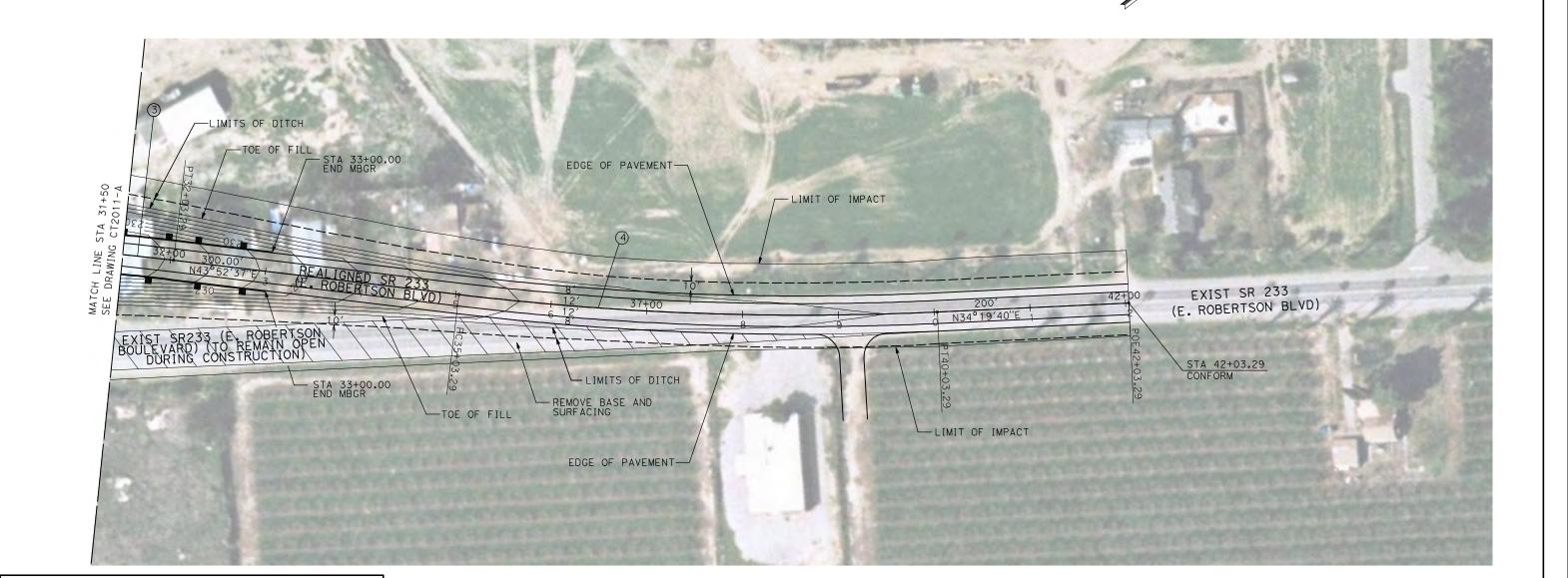
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Sacramento, CA 958II
CH2MHILL

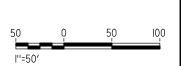


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MAIN LINE (AVE 24 WYE) ALT 1
GRADE SEPARATION - SR 233
LAYOUT
SHEET 3 OF 3

•	HSR06-007							
	DRAWING NO. CT2012-A							
	AS SHOWN							
	SHEET NO. ### OF ###							





CURVE DATA

250.58′ 500.00′ 45 MPH

9°32′57"

NO. R 3 3000.00'

AVENUE 24 1/2

AVENUE 23 1/2

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN IN CHARGE A. BOONE DATE 04/29/2011 BY CHK APP DESCRIPTION

LOCATION 45

HST

AVENUE 24

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION **AECOM** 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

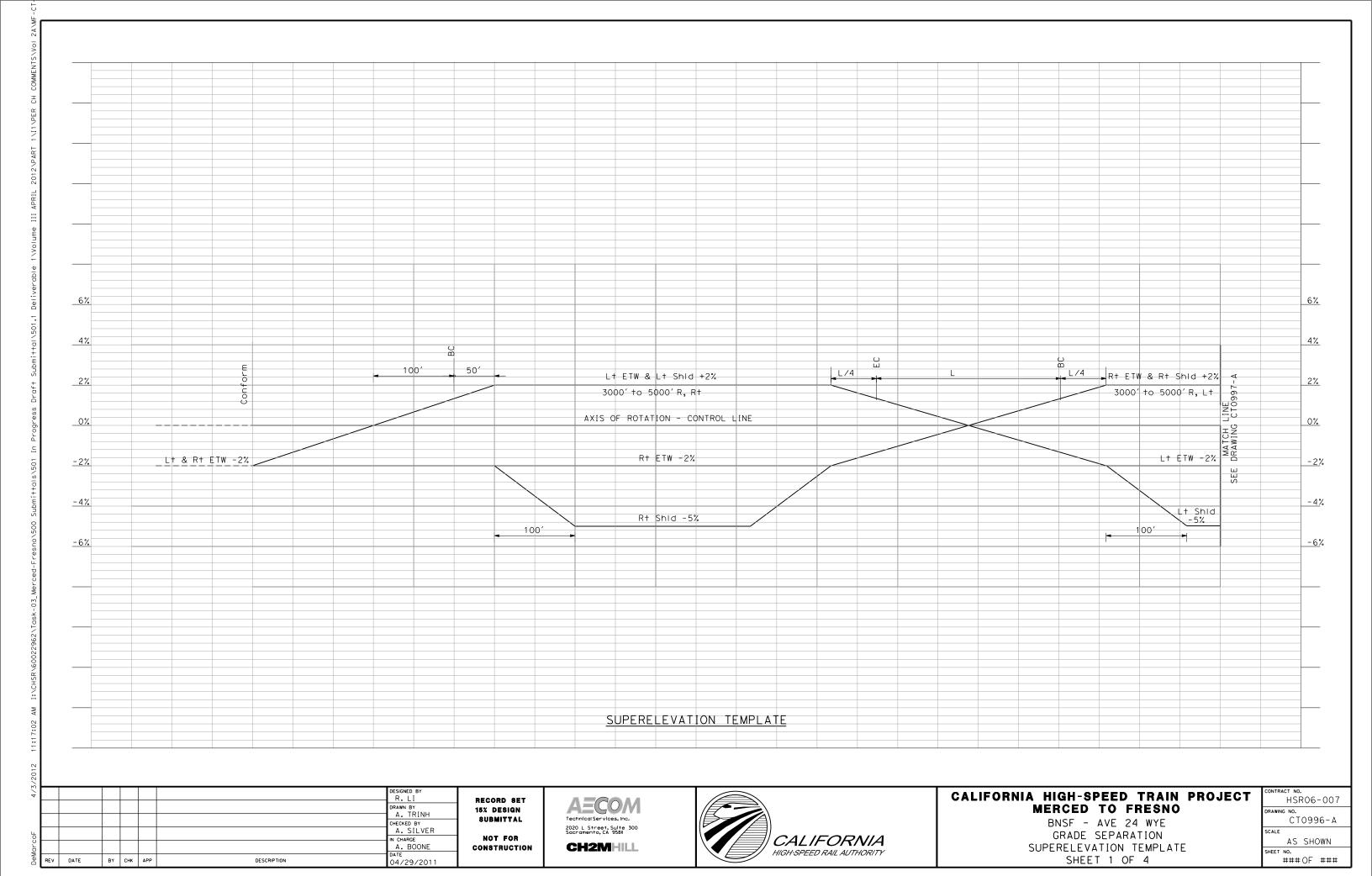
BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - SR 233 LAYOUT SHEET 3 OF 3

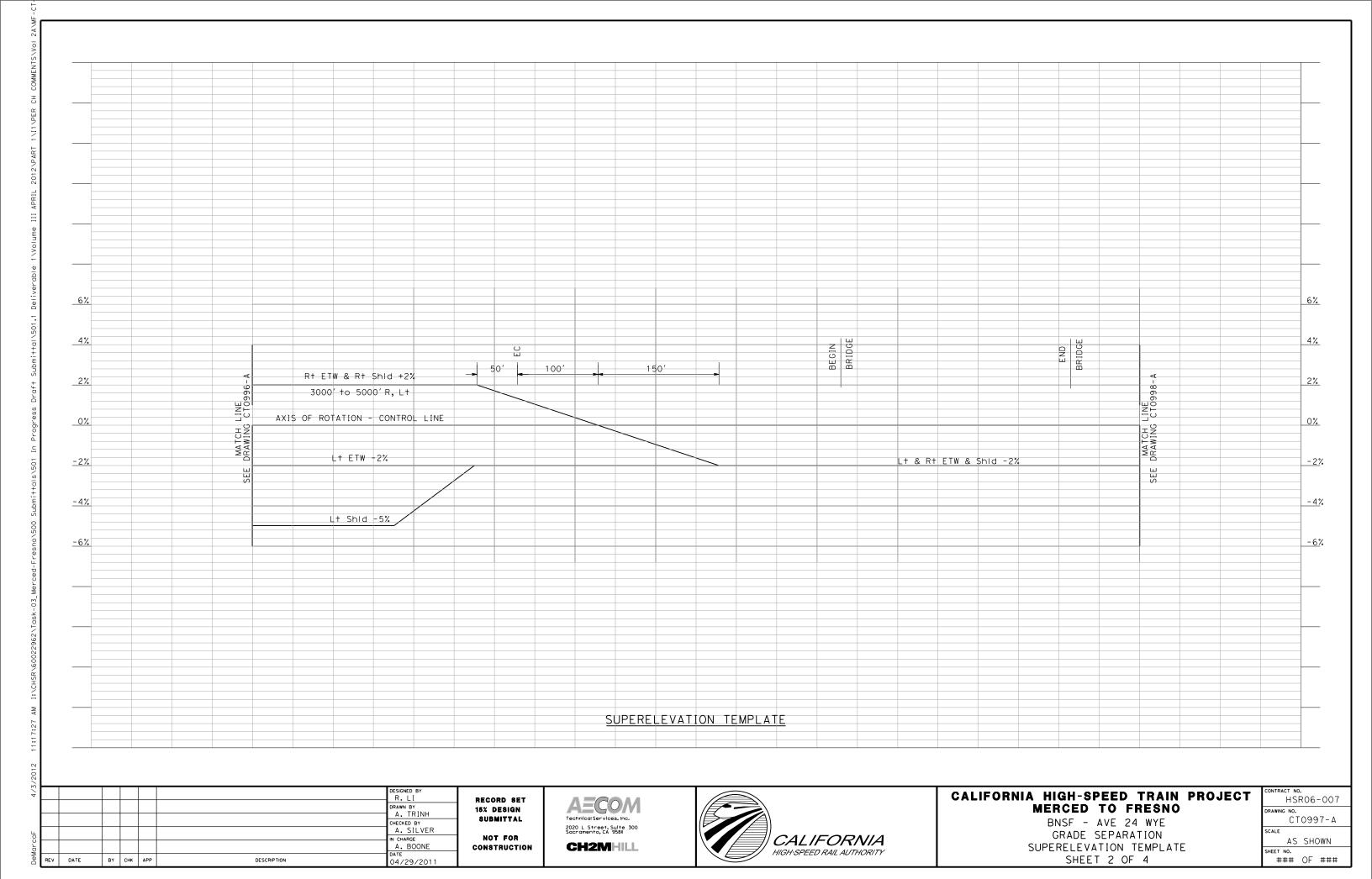
•	CONTRACT NO. HSR06-007
	DRAWING NO. CT2012R-A
	SCALE AS SHOWN
	SHEET NO. ### OF ###

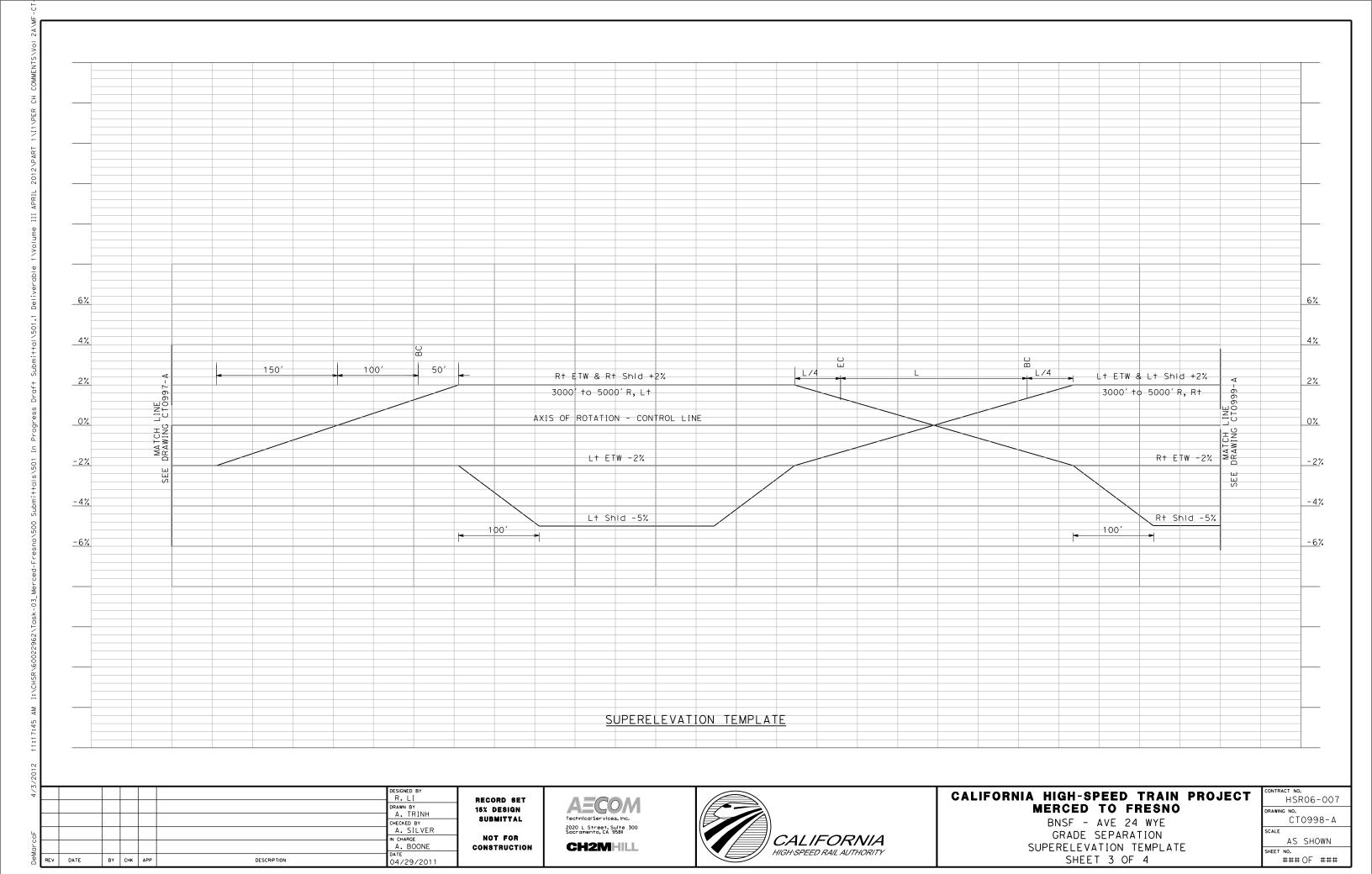
CURVE DATA

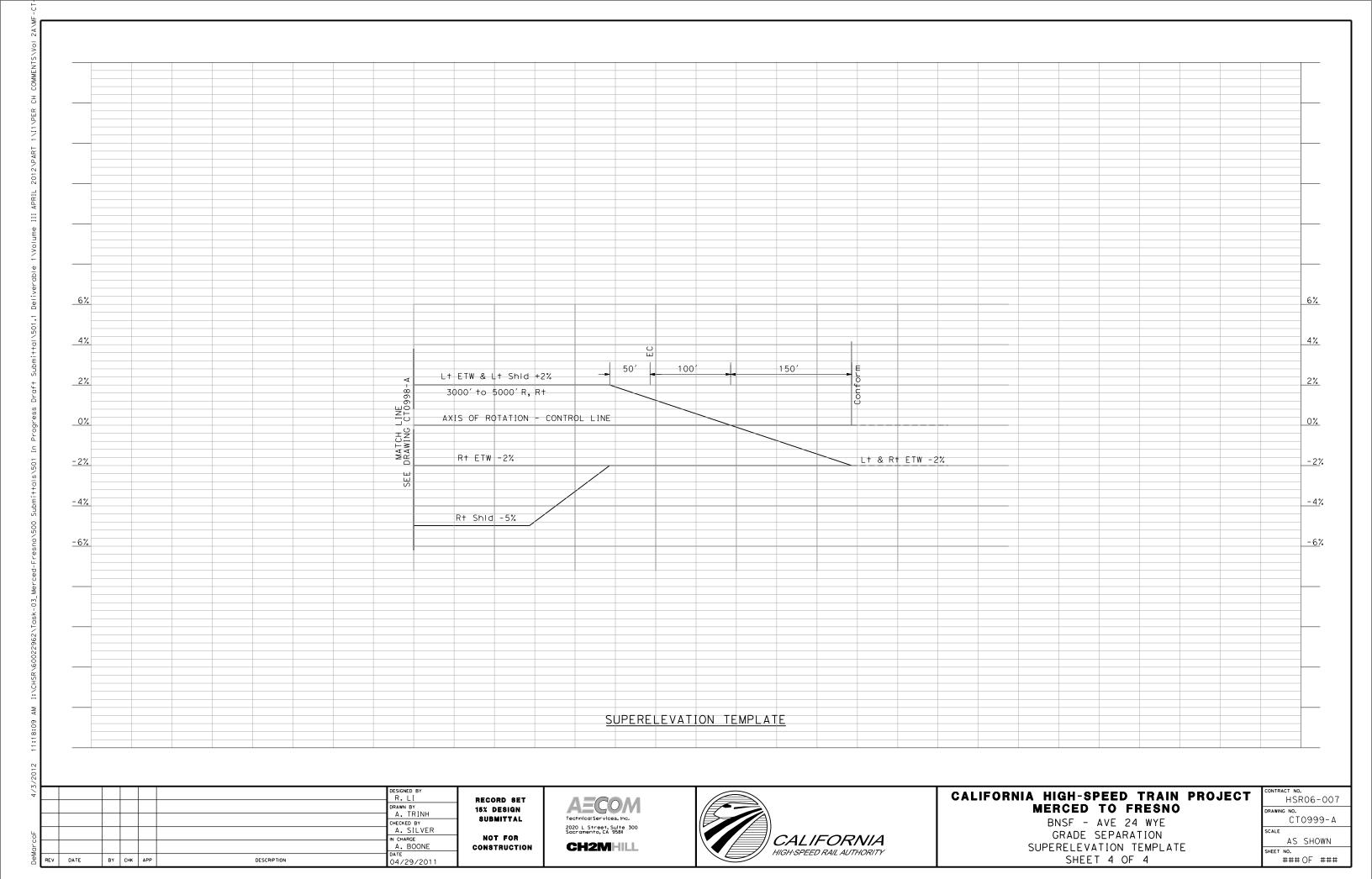
Δ

TOE OF CUT EDGE OF PAVEMENT EDGE OF PAVEMENT	LIMIT OF IMPACT
MATCH LINE STA 82+87.46 SEE BRAWING CT2011R-A 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	90 REALIGNED SR 233 12'
TOE OF CUT RETAINING WALL EDGE OF PAVEMENT	LIMIT OF IMPACT









<u>355</u> <u>355</u> 350 350 345 345 340 340 335 335 330 330 325 325 320 320 <u>315</u> 310 310 600′ VC SSD 395′ 305 305 300 300 295 295 290 290 MATCH LINE S SEE DRAWING 285 285 280 280 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 275 275 270 270 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO CT3001-A 15% DESIGN BNSF MAINLINE - AVE 24 WYE GRADE SEPARATION - AVENUE 8 PROFILE SHEET 1 OF 3 SUBMITTAL CHECKED BY A. SILVER NOT FOR CALIFORNIA AS SHOWN IN CHARGE A. BOONE **CH2M**HILL CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 OF ###

BY CHK APP

DESCRIPTION

<u>355</u> <u>355</u> 350 350 345 345 340 340 335 335 330 330 325 325 320 320 315 310 310 305 305 400' VC SSD 514' 300 300 295 295 290 290 285 285 280 280 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 275 275 270 270 35 NOT FOR CONSTRUCTION 30 FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO DRAWING NO. CT3003-A 15% DESIGN BNSF MAINLINE - AVE 24 WYE GRADE SEPARATION - AVENUE 8 PROFILE SHEET 3 OF 3 SUBMITTAL CHECKED BY A. SILVER NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 BY CHK APP DESCRIPTION

285 285 280 280 275 275 270 270 265 265 260 260 255 250 250 245 240 240 235 230 400' VC SSD 505' 225 MAT(- OG 220 220 0.45% 215 215 210 210 PROFILE 205 SCALE HORIZ: 1"=50' VERT: 1"=5' 10 15 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT3010-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - SR 233 CHECKED BY
J. ZANDIAN CALIFORNIA NOT FOR AS SHOWN N CHARGE A. BOONE **CH2M**HILL PROFILE CONSTRUCTION HIGH-SPEED RAIL AUTHORITY

SHEET 1 OF 3

OF ###

DATE 04/29/2011

REV DATE

BY CHK APP

DESCRIPTION

295 290 290 285 280 275 270 270 265 265 260 260 +67.80 EVC Elev 249.05 255 250 800'VC SSD 465' DS 45MPH MATCH CE DRAL 2 230 - QG 225 220 **PROFILE** 215 -H\$T TOR = 222.19 SCALE HORIZ: 1"=50' VERT: 1"=5' 20 25 30 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT3011-A SUBMITTAL BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - SR 233 PROFILE CHECKED BY
J. ZANDIAN NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2MHILL** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3 OF ### BY CHK APP DESCRIPTION

335 335 330 330 325 325 320 320 315 315 — HSR 310 310 HSR 305 305 – BN\$F 300 300 – og 295 295 - UNDERPASS STRUCTURE 290 290 285 285 280 +74.24 EVC Elev 270.69 280 STA 73+00 CT3010R-A | S | S | 275 275 375'VC SSD 360' DS 45MPH LINE AWING - FG 270 270 TCH DRA -0.60% 265 265 260 260 **PROFILE** 255 255 SCALE HORIZ: 1"=50' VERT: 1"=5' 250 75 8 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT RECORD SET 15% DESIGN HSR06-007 DRAWN BY F. DEMARCO MERCED TO FRESNO RAWING NO. CT3011R-A SUBMITTAL BNSF MAINLINE - AVE 24 WYE CHECKED BY
J. ZANDIAN 2020 L Street, Suite 300 Sacramento, CA 95811 UNDERPASS - ROUTE 233 NOT FOR CALIFORNIA AS SHOWN N CHARGE A. BOONE **CH2M**HILL **PROFILE** CONSTRUCTION HIGH-SPEED RAIL AUTHORITY DATE 04/29/2011 SHEET 2 OF 3

REV DATE

BY CHK APP

DESCRIPTION

OF

295 290 290 285 285 280 275 275 270 270 265 265 260 260 255 250 245 +17.93 BVC Elev 231.04 240 240 235 +17.93 EVC Elev 222.56 400′ VC SSD 474′ 230 230 — og 225 220 215 PROFILE SCALE HORIZ: 1"=50' VERT: 1"=5' 35 40 NOT FOR CONSTRUCTION FOR INTERNAL USE ONLY DESIGNED BY R. GIBSON CALIFORNIA HIGH-SPEED TRAIN PROJECT HSR06-007 RECORD SET DRAWN BY F. DEMARCO MERCED TO FRESNO 15% DESIGN CT3012-A SUBMITTAL CHECKED BY
J. ZANDIAN N CHARGE A. BOONE

BY CHK APP

DESCRIPTION

NOT FOR CONSTRUCTION

DATE 04/29/2011

CH2MHILL



BNSF MAIN LINE - AVE 24 WYE GRADE SEPARATION - SR 233 PROFILE SHEET 3 OF 3

AS SHOWN

					DESIGNED BY H. Lee
					DRAWN BY E. CISNEROS
					CHECKED BY J. RENTERIA
					IN CHARGE A. Boone
DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011
	DATE	DATE BY	DATE BY CHK	DATE BY CHK APP	DATE BY CHK APP DESCRIPTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT

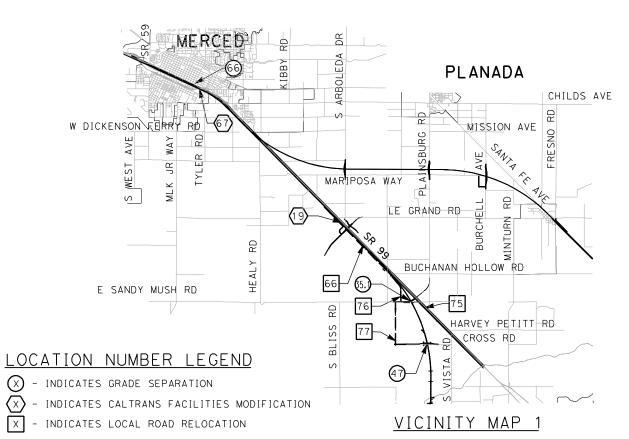
SHEET 1 OF 1

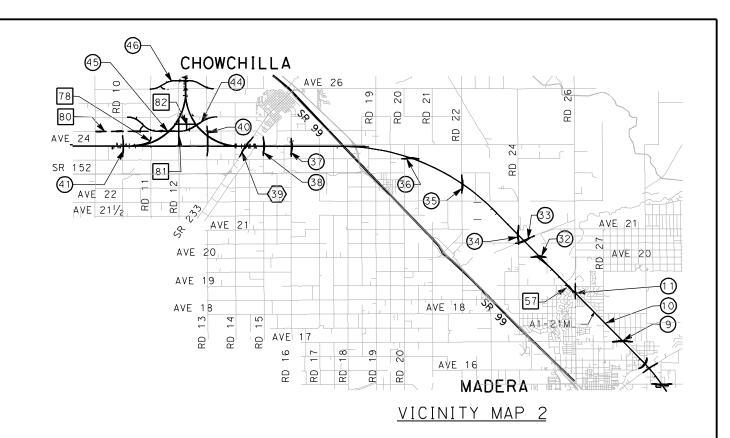
CONTRA	CT NO).
H	HSR	06-007
DRAWING	NO.	
	S	B0101
SCALE		
	No	SCOLO

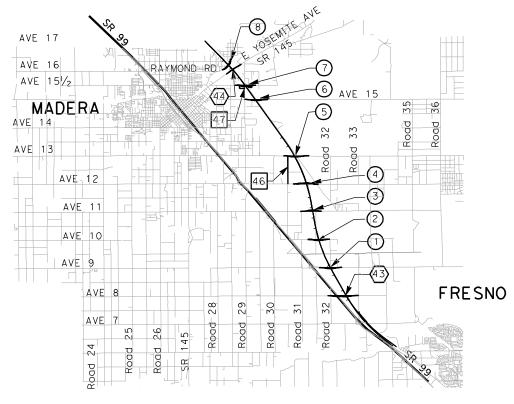
MERCED TO FRESNO BNSF MAIN LINE	DRAWING NO. SB0101
	scale No scole
SHEFT 1 OF 1	SHEET NO.

HT D	WG NO	DRAWING TITLE Line 3	DRAWING TITLE LINE 4	SHEET TITLE Line 5	SHEET TITLI LINE 6
		ROADW	AY BRIDGE STI	RUCTURE PLAN	
			BNSF AVENUE	24	
			GENERAL		
ISBO	0101	BNSF MAIN LINE	AVENUE 24	INDEX OF DRAWINGS	SHEET 1 OF 1
		BNSF MAIN LINE	AVENUE 24	STRUCTURE INDEX MAP	SHEET 1 OF 1
1300	0201	DIGIT WINTIN ETITE	Milenot E I	STREETINE TREEX III/II	0.1.22.1 . 0
			OVERHEAD BRIDGE	S	
ST1	1000	BNSF MAIN LINE	AVENUE 21	AVENUE 8 OVERHEAD	PLANNING STUD
		BNSF MAIN LINE	AVENUE 24	SR 233 OVERHEAD	PLANNING STUD
		UPRR/SR 99 MERCED CONNECTION	AVENUE 21	SR 99 SOUTH BOUND OVERHEAD	PLANNING STUD
_					

LOCATION NO.	SHEET TITLE	STRUCTURE DWG NO.	ROADWAY DWG NO.
43>	AVENUE 8 OVERHEAD	ST1000	CT2000-A - CT2002-A
39	SR 233 OVERHEAD	ST1014	CT7200-B - CT7203-B
67	SR 99 SOUTHBOUND OVERHEAD	ST1181	







VICINITY MAP 3



						DESIGNED BY H. Lee
						DRAWN BY E. CISNEROS
						CHECKED BY J. ZANDIAN
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 958II
CH2MHILL

RECORD SET

15% DESIGN SUBMITTAL

NOT FOR

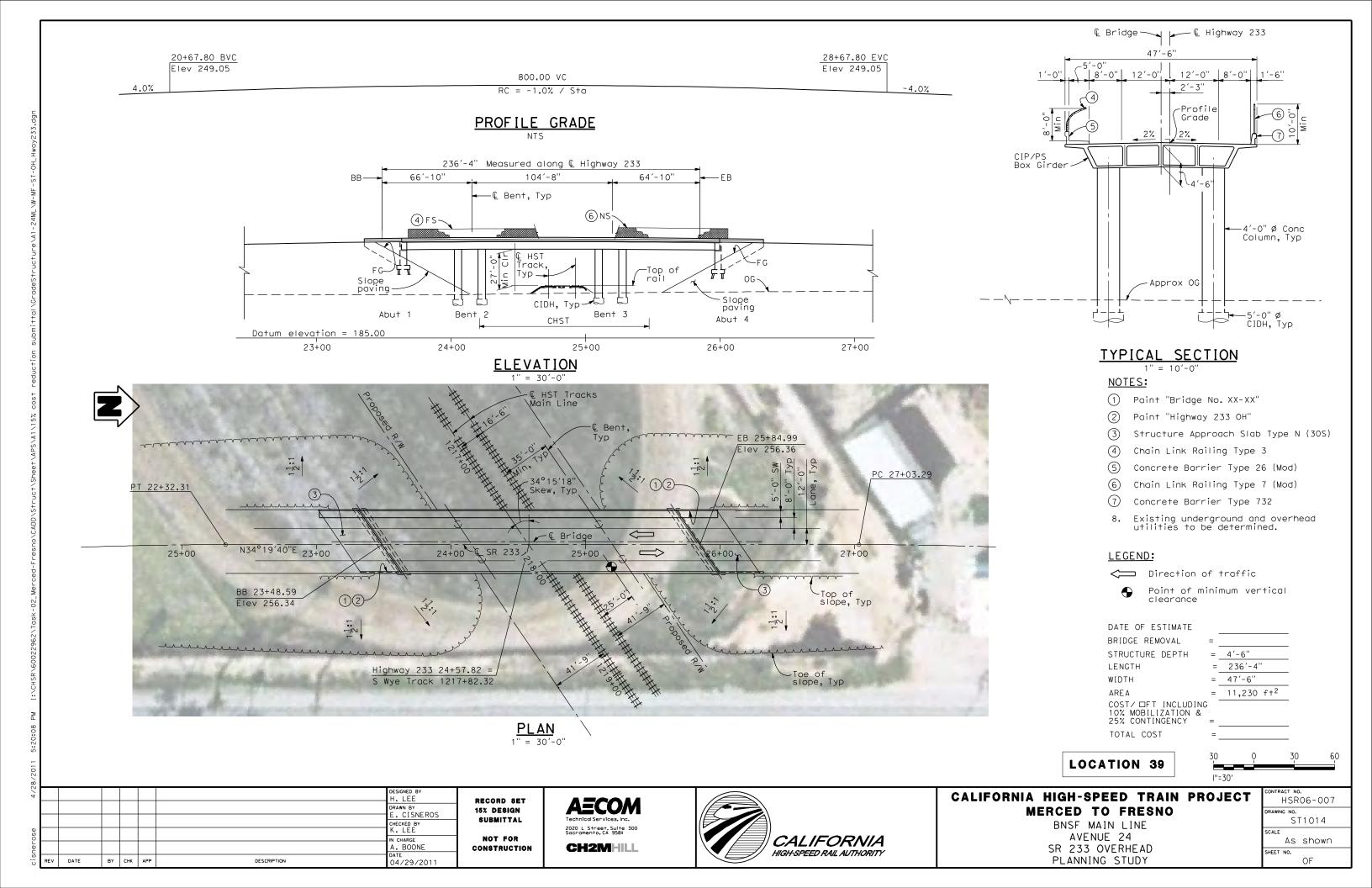
CONSTRUCTION

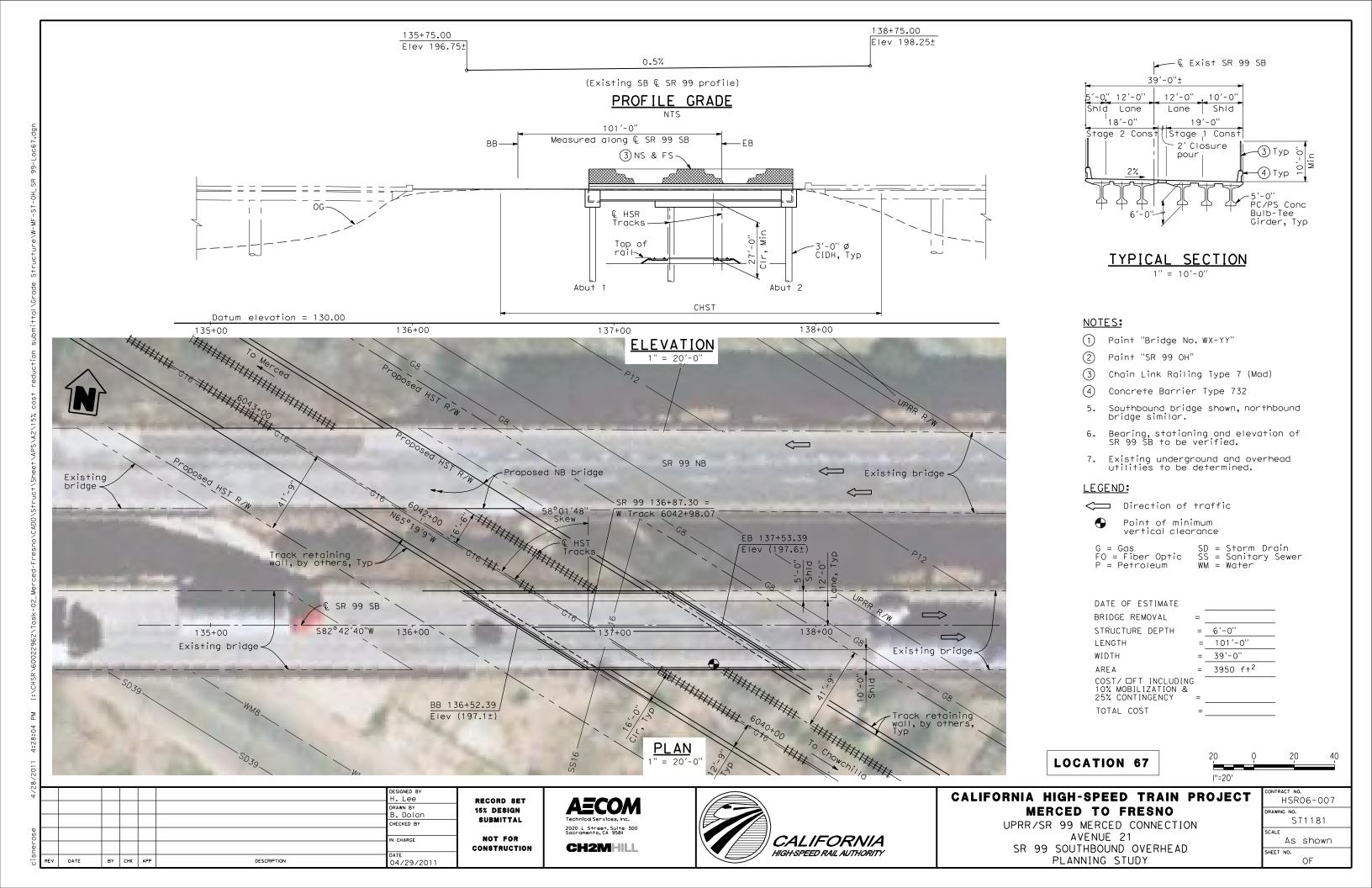


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO BNSF MAIN LINE

BNSF MAIN LINE
AVENUE 24
STRUCTURE INDEX MAP
SHEET 1 OF 1

	HSR06-007								
AWIN	IG NO.								
	SE	30201							
ALE									
	As	shown							
EET	NO.		_						
		OF							





LOCATION NO.	SHT NO.	DWG NO.	DRAWING TITLE LINE 3	DRAWING TITLE LINE 4	DRAWING TITLE LINE 5	DRAWING TITLE LINE 6
				GENERAL		
		B0110-A	BNSF - AVE 24 WYE	GENERAL	INDEX OF DRAWINGS	SHEET 1 OF 1
		B0111-A	BNSF - AVE 24 WYE	GENERAL	ABBREVIATIONS, SYMBOL & NOTES	
		B0117-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 1 OF 4
		B0118-A	BNSF - AVE 24 WYE		INDEX MAP	SHEET 2 OF 4
		B0119-A	BNSF - AVE 24 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 3 OF 4
		B0120-A	BNSF - AVE 24 WYE	ALTERNATIVES NO.1, NO.2, NO.3	INDEX MAP	SHEET 4 OF 4
		CT0121-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	LOCAL ROADS	SHEET 1 OF 2
		CT0122-A	BNSF - AVE 24 WYE	TYPICAL CROSS SECTIONS	LOCAL ROADS	SHEET 2 OF 2
			A1 -	AVE 24 WYE (LAYOUT)		
46		CR4000-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - ROAD 30 1/2	LAYOUT	SHEET 1 OF 1
47		CR4001-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - ROAD 29	LAYOUT	SHEET 1 OF 1
48		CR4002-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 1
49		CR4003-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SHARON ST	LAYOUT	SHEET 1 OF 1
51		CR4005-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 26	LAYOUT	SHEET 1 OF 1
52		CR4006-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SANTA FE DR	LAYOUT	SHEET 1 OF 1
53		CR4007-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 1 OF 3
53		CR4008-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 2 OF 3
53		CR4009-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - SANTA FE AVE	LAYOUT	SHEET 3 OF 3
55		CR4010-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - BURCHELL AVE	LAYOUT	SHEET 1 OF 1
56		CR4011-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - ROAD 24	LAYOUT	SHEET 1 OF 1
57		CR4012-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - HANOVER DR	LAYOUT	SHEET 1 OF 1
58		CR4013-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 1
58		CR4014-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 20 1/2	LAYOUT	SHEET 1 OF 1
60		CR4015-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - ROAD 22	LAYOUT	SHEET 1 OF 1
66		CR4016-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD		SHEET 1 OF 2
66		CR4017-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 2 OF 2
66		CR4016R-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 1 OF 2
66		CR4017R-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - PROPOSED WEST FRONTAGE ROAD	LAYOUT	SHEET 2 OF 2
67		CR4018-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - ROAD 33	LAYOUT	SHEET 1 OF 1
61		CR4100-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 23 1/2	LAYOUT	SHEET 1 OF 2
61		CR4101-A	BNSF MAIN LINE - AVE 24 WYE	LOCAL ROAD - AVENUE 23 1/2	LAYOUT	SHEET 2 OF 2
O I		ON THO T		24 WYE - ALT 01 (LAYOUT)	Entoor	311221 2 01 2
83	ı	CR4200-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.WHITE ROCK RD	LAYOUT	SHEET 1 OF 2
83		CR4201-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.WHITE ROCK RD	LAYOUT	SHEET 2 OF 2
84		CR4202-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.BURCHELL AVE	LAYOUT	SHEET 1 OF 1
0-1		CITIZOZ A		24 WYE - ALT 02 (LAYOUT)	LATOUT	JILLI I OI I
85		CR4255-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.FRESNO ROAD	LAYOUT	SHEET 1 OF 1
				24 WYE - ALT 03 (LAYOUT)	 -	
86	П	CR4300-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.SANTA FE AVE	LAYOUT	SHEET 1 OF 2
86		CR4301-A	BNSF MERCED CONNECTION - AVE 24 WYE	LOCAL ROAD - S.SANTA FE AVE	LAYOUT	SHEET 2 OF 2

| DESIGNED BY | R. GIBSON | DRAWN BY | F. DEMARCO | CHECKED BY | A. SILVER | IN CHARGE | A. BOONE | DATE | BY CHK APP | DESCRIPTION | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | DATE | D

RECORD SET
15% DESIGN
SUBMITTAL
NOT FOR
CONSTRUCTION

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Sacramento, CA 958II
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 GENERAL INDEX OF DRAWINGS SHEET 1 OF 1

CONTRACT NO.
HSR06-007
DRAWING NO.
B0110-A
SCALE
NONE
SHEET NO.
OF

—— G16 ———

—-- TC ———--

— -- TC — — --

— P12 ——

— (ОН) —

—— (UG) ———

POINT ON TANGENT POINT OF REVERSE CURVES РΤ POINT OF TANGENCY

R RADIUS OF CURVATURE IN FEET VELOCITY, DESIGN SPEED IN MILES PER HOUR

VERTICAL

PVC POINT OF VERTICAL CURVE (BEGINNING OF CURVE) PVI POINT OF VERTICAL INTERSECTION (OF TANGENTS) PVT POINT OF VERTICAL TANGENCY (ENDING OF CURVE) ٧C VERTICAL CURVE

MISCELLANEOUS

BEG BEGIN BLVD BOULEVARD CENTER LINE CENTERLINE, CLASS CL CLR COL COLUMN DWG DRAWING EQUATION ΕQ EXISTING EXIST(E) INCH LΤ LEFT MAX MAXIMUM MINIMUM MIN NORTH Ν NB NORTH BOUND NTS NOT TO SCALE OG ORIGINAL GROUND O/H OH OVERHEAD PG&E PACIFIC GAS & ELECTRIC PGL, FG PROFILE GRADE LINE RAILROAD RD ROAD RIGHT OF WAY R/W RT RIGHT SS SANITARY SEWER SHEET SHT ST STREET STD STANDARD SD STORM DRAIN STRUCT, STR STRUCTURE TELEPHONE (OH) OVERHEAD LINE TOR TOP OF RAIL

ΤK TRACK

V VERT

TYP TYPICAL TBD TO BE DETERMINED TELECOMMUNICATIONS FIBER TF

> OPTIC VERTICAL WATER, WEST

MATCH LINE

HST TRACK

PROPOSED HST RIGHT-OF-WAY

FREIGHT/PASSENGER TRACK - EXISTING

EXISTING EXISTING

RIGHT-OF-WAY BRIDGE FEATURES

RETAINING WALLS

ORIGINAL GROUND

GAS LINE (16")

COMMUNICATION LINE

WATER LINE

FIBER OPTIC LINE

ELECTRICAL LINE

ELECTRICAL TOWER

SEWER LINE

STORM DRAIN LINE

FUEL LINE

TELEPHONE LINE

PETROLEUM LINE (12")

OVERHEAD LINE

NORTH ARRROW

PVI

UNDERGROUND LINE

7201							
4/6/							DESIGNED BY
							DRAWN BY A. TRINH
							CHECKED BY J. ZANDIAN
onri							IN CHARGE A. BOONE
gibsor	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 07/27/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR

CONSTRUCTION

2020 L Street, Suite 300 Sacramento, CA 95811 **CH2MHILL**

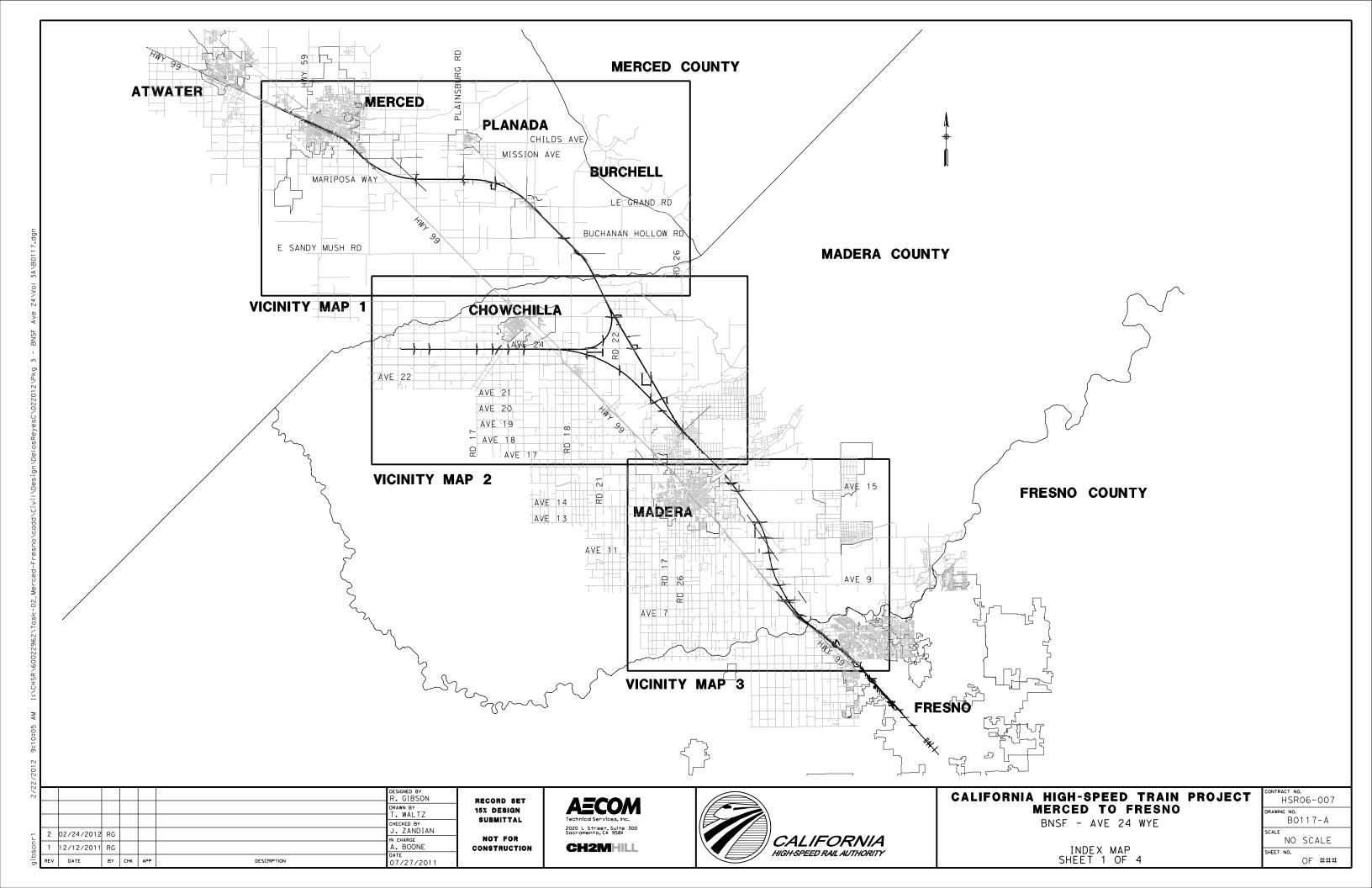


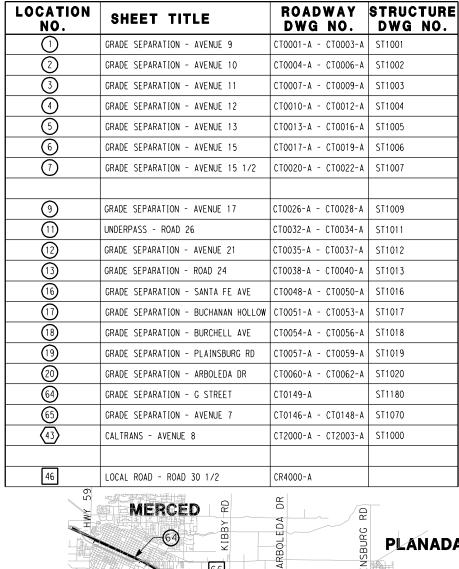
CALIFORNIA HIGH-SPEED TRAIN PROJECT CONTRACT NO. HSR06-007 MERCED TO FRESNO

BNSF - AVE 24 WYE GENERAL ABBREVIATIONS, SYMBOLS & NOTES SHEET 1 OF 1

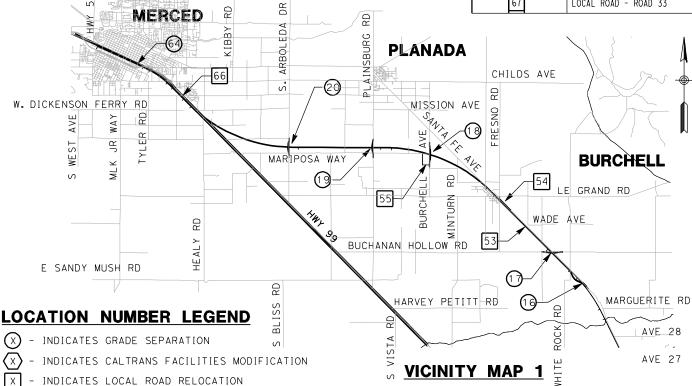
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DRAWING NO.
B0111-A
SCALE NO COALE
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SHEET NO. ### OF ###

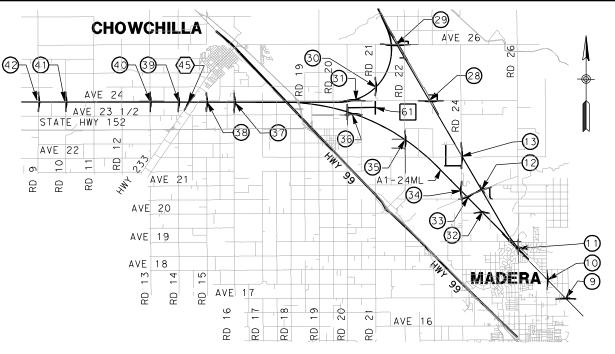




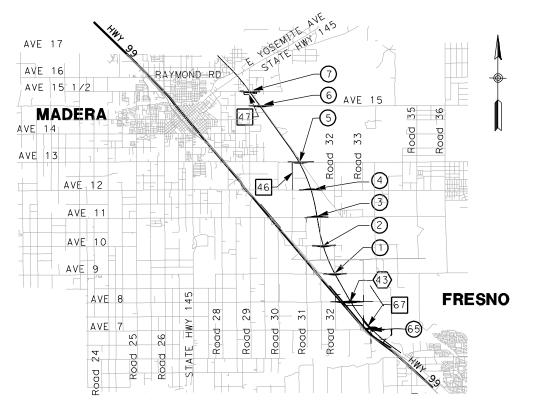
LOCATION NO.	SHEET TITLE	ROADWAY DWG NO.	STRUCTURE DWG NO.
47	LOCAL ROAD - ROAD 29	CR4001-A	
53	LOCAL ROAD - SANTA FE AVE	CR4007-A - CR4009-A	
54	LOCAL ROAD - SANTA FE AVE (SOUTH)	CR4009-A	
55	LOCAL ROAD - BURCHELL RD	CR4010-A	
28	GRADE SEPARATION - AVENUE 24	CT0100-A - CT0102-A	ST1030
29	GRADE SEPARATION - AVENUE 26	CT0103-A - CT0106-A	ST1031 - ST1032
30	GRADE SEPARATION - ROAD 21	CT0107-A - CT0109-A	ST1033
31)	GRADE SEPARATION - AVENUE 24	CT0110-A - CT0112-A	ST1034
32	GRADE SEPARATION - AVENUE 20	CT0113-A - CT0115-A	ST1035
33	GRADE SEPARATION - AVENUE 20 1/2	CT0116-A - CT0118-A	ST1036 - ST1037
34)	GRADE SEPARATION - ROAD 24	CT0119-A - CT0121-A	ST1038 - ST1039
35)	GRADE SEPARATION - ROAD 22	CT0122-A - CT0124-A	ST1040
<u>36</u>	GRADE SEPARATION - AVENUE 23 1/2	CT0125-A - CT0127-A	ST1041
37)	GRADE SEPARATION - ROAD 16	CT0128-A - CT0130-A	ST1042
38	GRADE SEPARATION - ROAD 15	CT0131-A - CT0133-A	ST1043
39	GRADE SEPARATION - ROAD 14	CT0134-A - CT0136-A	ST1044
40	GRADE SEPARATION - ROAD 13	CT0137-A - CT0139-A	ST1045
<u>(41)</u>	GRADE SEPARATION - ROAD 10	CT0140-A - CT0142-A	ST1046
42	GRADE SEPARATION - ROAD 9	CT0143-A - CT0145-A	ST1047
4 5	CALTRANS - SR 233	CT0210-A - CT0212-A	ST1150
61	LOCAL ROAD - AVENUE 23 1/2	CR4100-A - CR4101-A	
66	LOCAL ROAD - PROP W. FRONTAGE RD	CR4016-A - CR4017-A	
67	LOCAL ROAD - ROAD 33	CR4018-A	



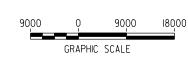
FOR ROADWAY STRUCTURES SEE STRUCTURAL INDEX MAPS



VICINITY MAP 4



VICINITY MAP 3



- INDICATES LOCAL ROAD RELOCATION

ESIGNED BY RAWN BY CHECKED BY
J. ZANDIAN 2 02/24/2012 RG N CHARGE A. BOONE 12/12/2011 RG BY CHK APP DESCRIPTION 07/27/2011

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

AECOM 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



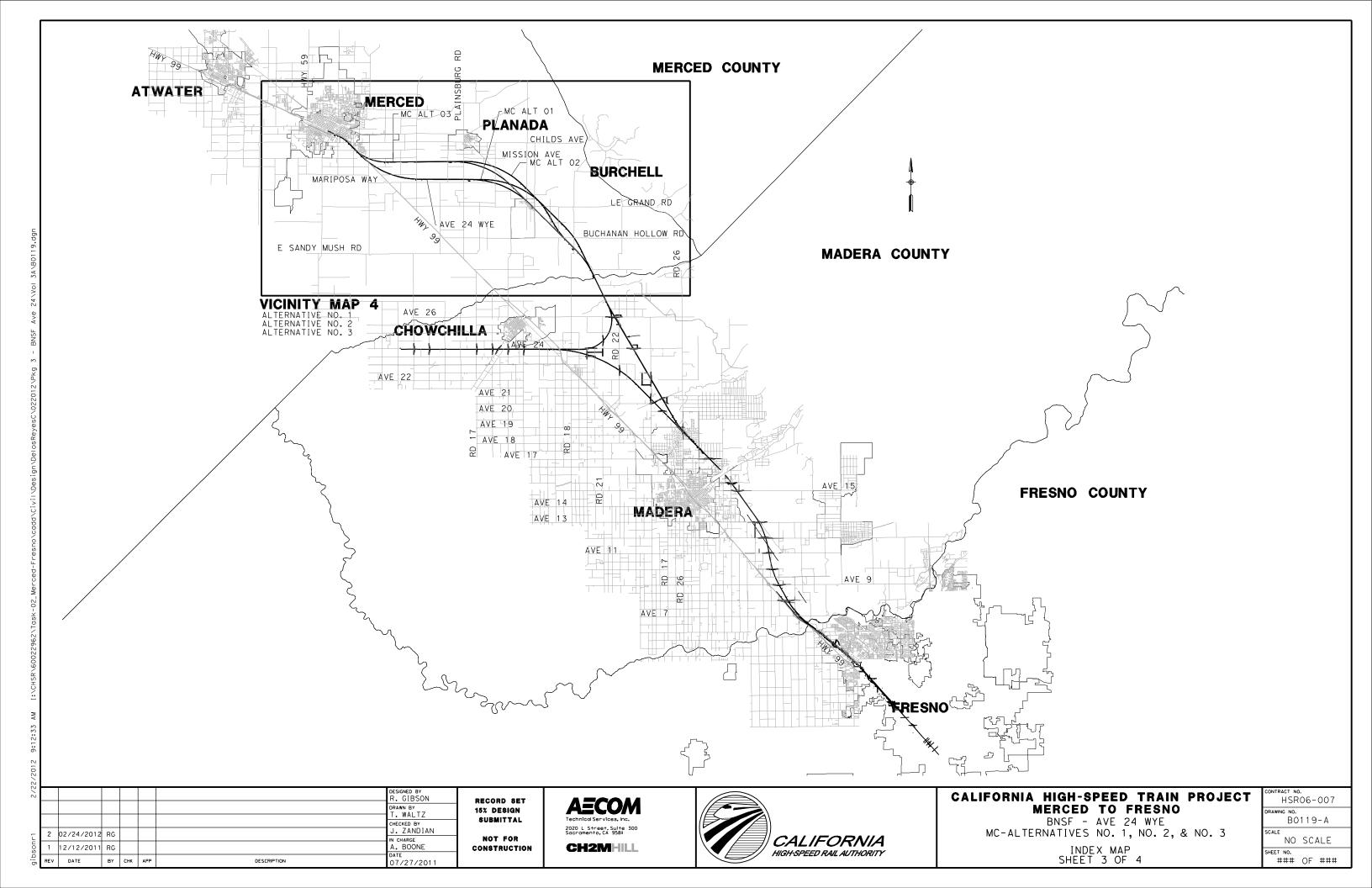
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF - AVE 24 WYE

INDEX MAP SHEET 2 OF 4

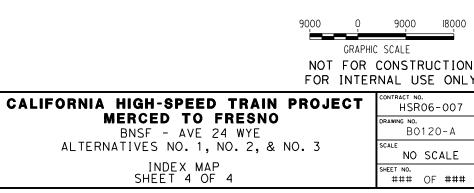
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HSR06-007
DRAWING NO.
B0118-A
SCALE
AS SHOWN

OF ###



						DESIGNED BY R. GIBSON
						DRAWN BY T. WALTZ
						CHECKED BY J. ZANDIAN
						IN CHARGE A. BOONE
REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 07/27/2011

2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL



PLANADA

MISSION AVE

RD

HARVEY PETITT RD

PLÁNADA

MISSION AVE

RD

BUCHANAN HOLLOW RD

ALTERNATIVE MC-02

Z CHILDS AVE

BURCHELL

MARGUERITE RD

BURCHELL

LE GRAND RD

WADE AVE

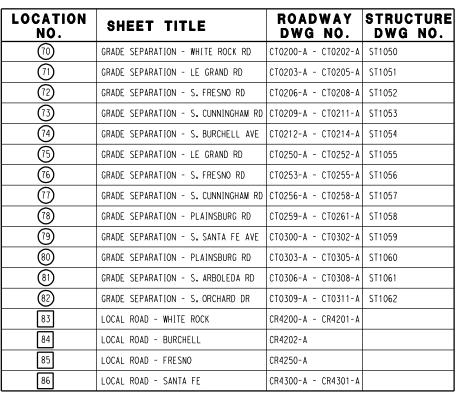
- DLE GRAND RD

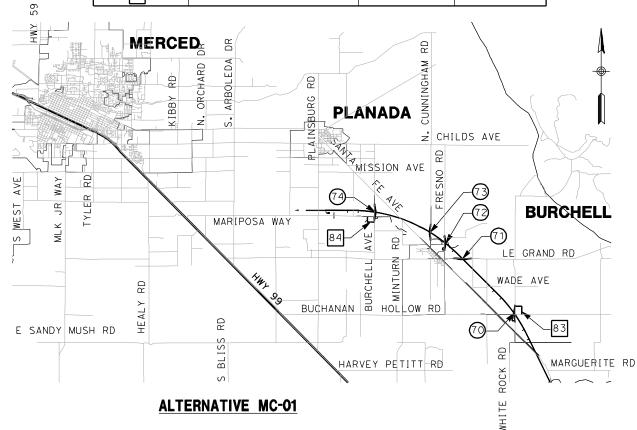
WADE AVE

ROCK

WHITE

≥ CHILDS AVE





BUCHANAN HOLLOW RD RD E SANDY MUSH RD BLISS MARGUERITE RD HARVEY PETITT RD **ALTERNATIVE MC-03**

MARIPOSA WAY

MARIPOSA WAY

BLISS

MERCED

E SANDY MUSH RD

FOR ROADWAY STRUCTURES SEE STRUCTURAL INDEX MAPS

LOCATION NUMBER LEGEND

- (X) INDICATES GRADE SEPARATION
- X INDICATES CALTRANS FACILITIES MODIFICATION
- X INDICATES LOCAL ROAD RELOCATION



DATE

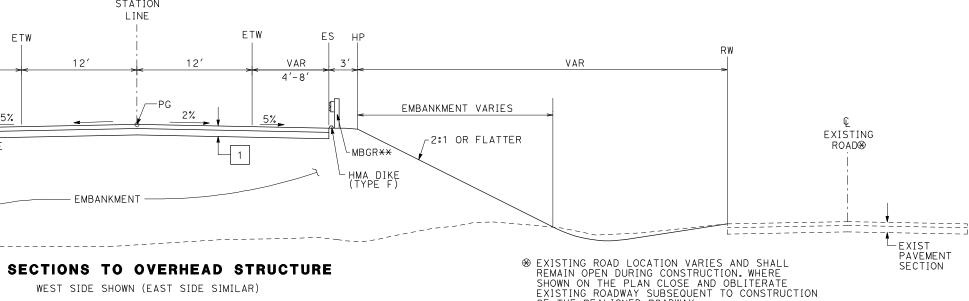
BY CHK APP

DESCRIPTION

04/29/2011

STRUCTURAL SECTIONS:

- HMA TYPE A AB CLASS 2
- CAST IN PLACE / PRESTRESSED BOX GIRDER (6' STRUCTURE DEPTH)



OF THE REALIGNED ROADWAY.

** EXACT LIMITS OF MBGR PER AGENCY REQUIREMENTS.

TYPICAL CROSS SECTIONS ON THIS SHEET APPLY TO THE FOLLOWING ROADWAYS FOR ALIGNMENT A1, AVE 21 WYE:

NO.	STREET NAME		
1	WHITE ROCK RD	12	AVENUE 20.5
2	LE GRAND RD	13	ROAD 24
3	S. FRESNO RD	14	ROAD 22
4	S. CUNNINGHAM RD	15	AVENUE 23.5
5	PLAINSBURG RD	16	ROAD 16
6	S. ARBOLEDA RD	17	ROAD 15
7	S. ORCHARD RD.	18	ROAD 14
8	AVENUE 24	19	ROAD 13
9	AVENUE 26	20	ROAD 10
10	ROAD 21	21	ROAD 9
11	AVENUE 20		

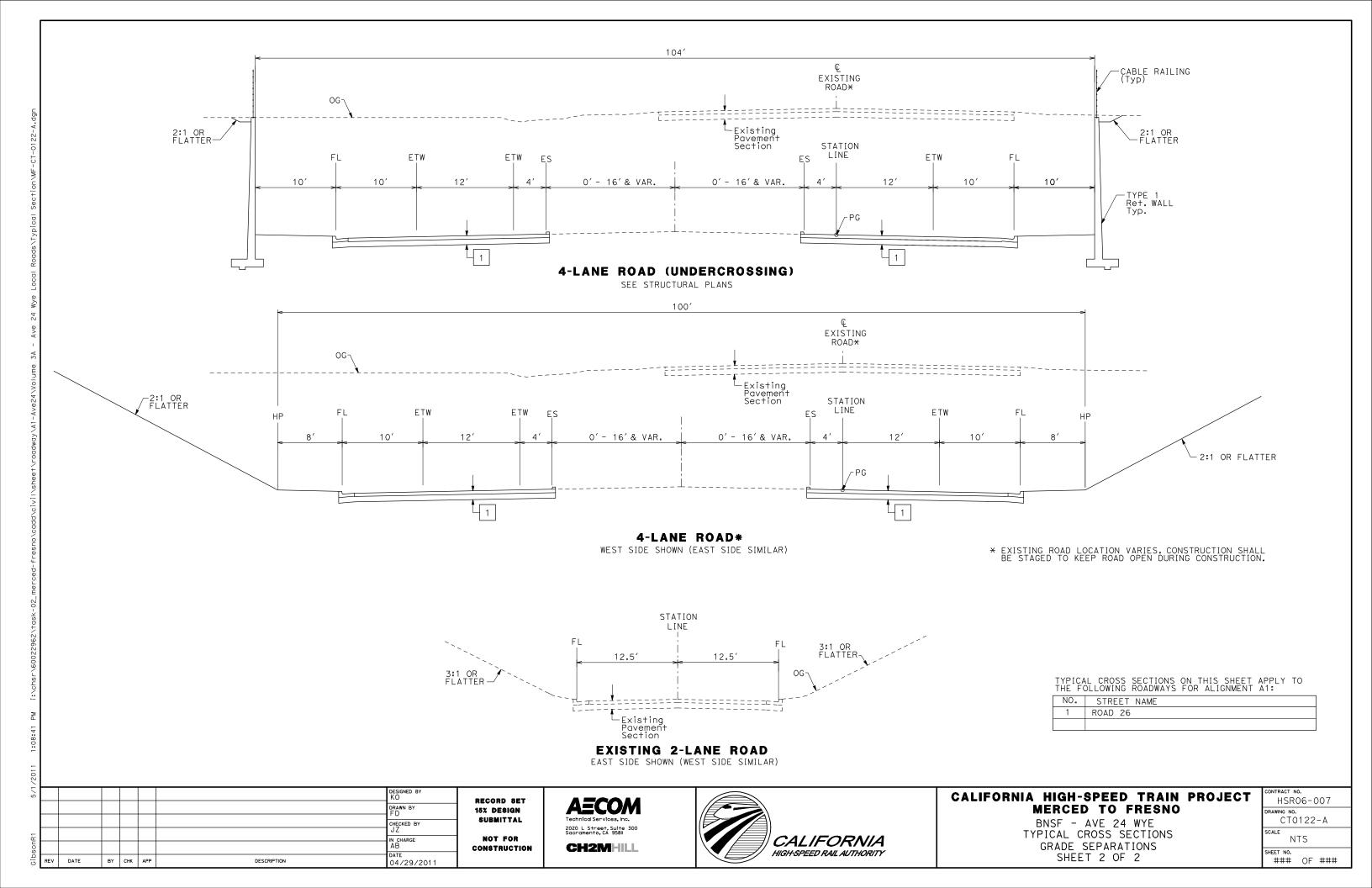
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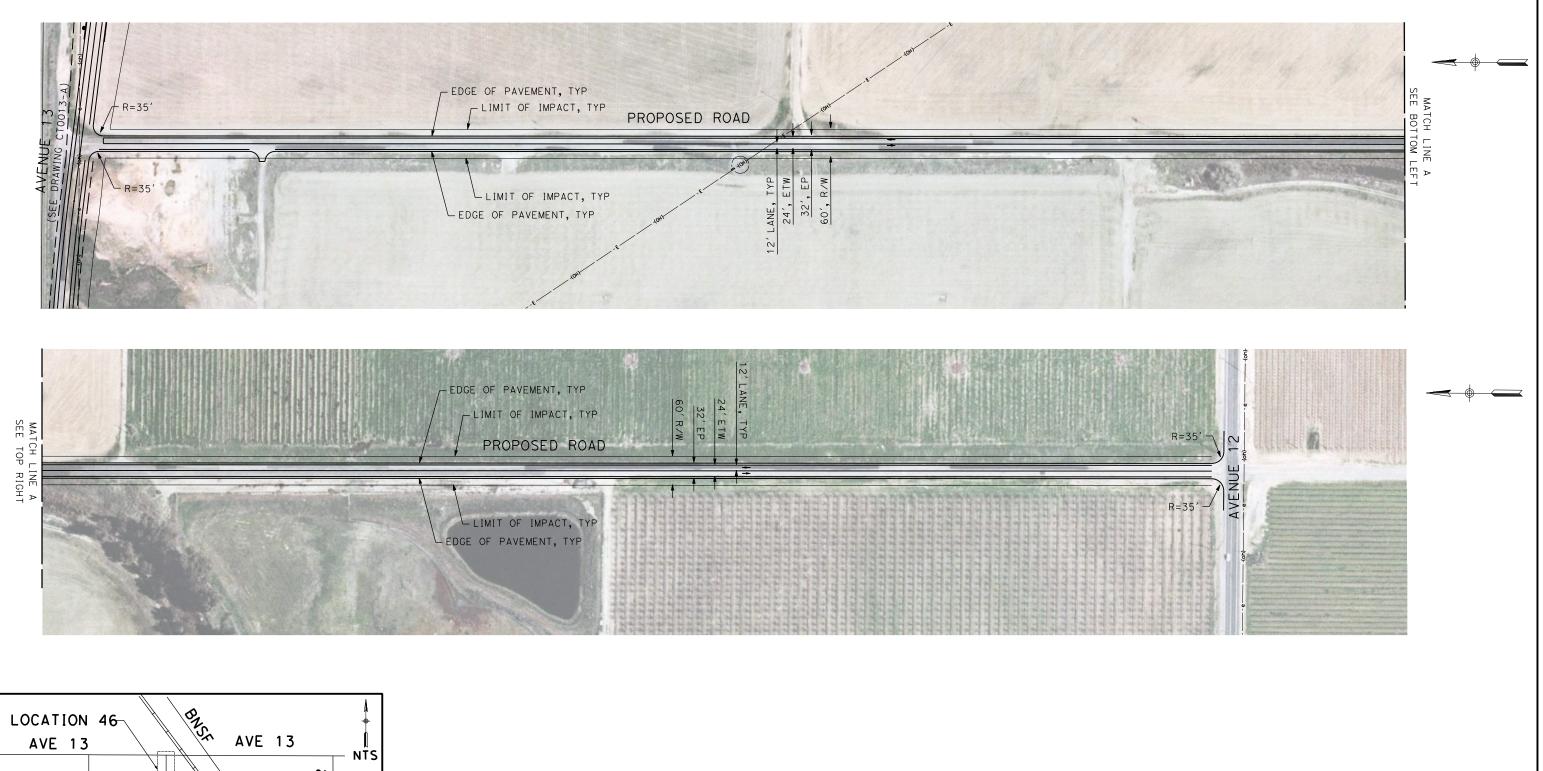
HIGH-SPEED RAIL AUTHORITY

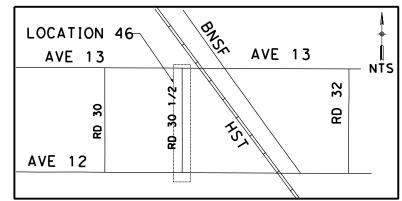
BNSF - AVE 24 WYE TYPICAL CROSS SECTIONS GRADE SEPERATIONS SHEET 1 OF 2

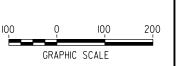
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						DESIGNED BY R. GIBSON	Г
						DRAWN BY	
						H. PHAN	ĺ
						CHECKED BY J. ZANDIAN	
						IN CHARGE	ı
						A. BOONE	
REV	DATE	ВҮ	СНК	APP	DESCRIPTION	DATE 07/27/2011	

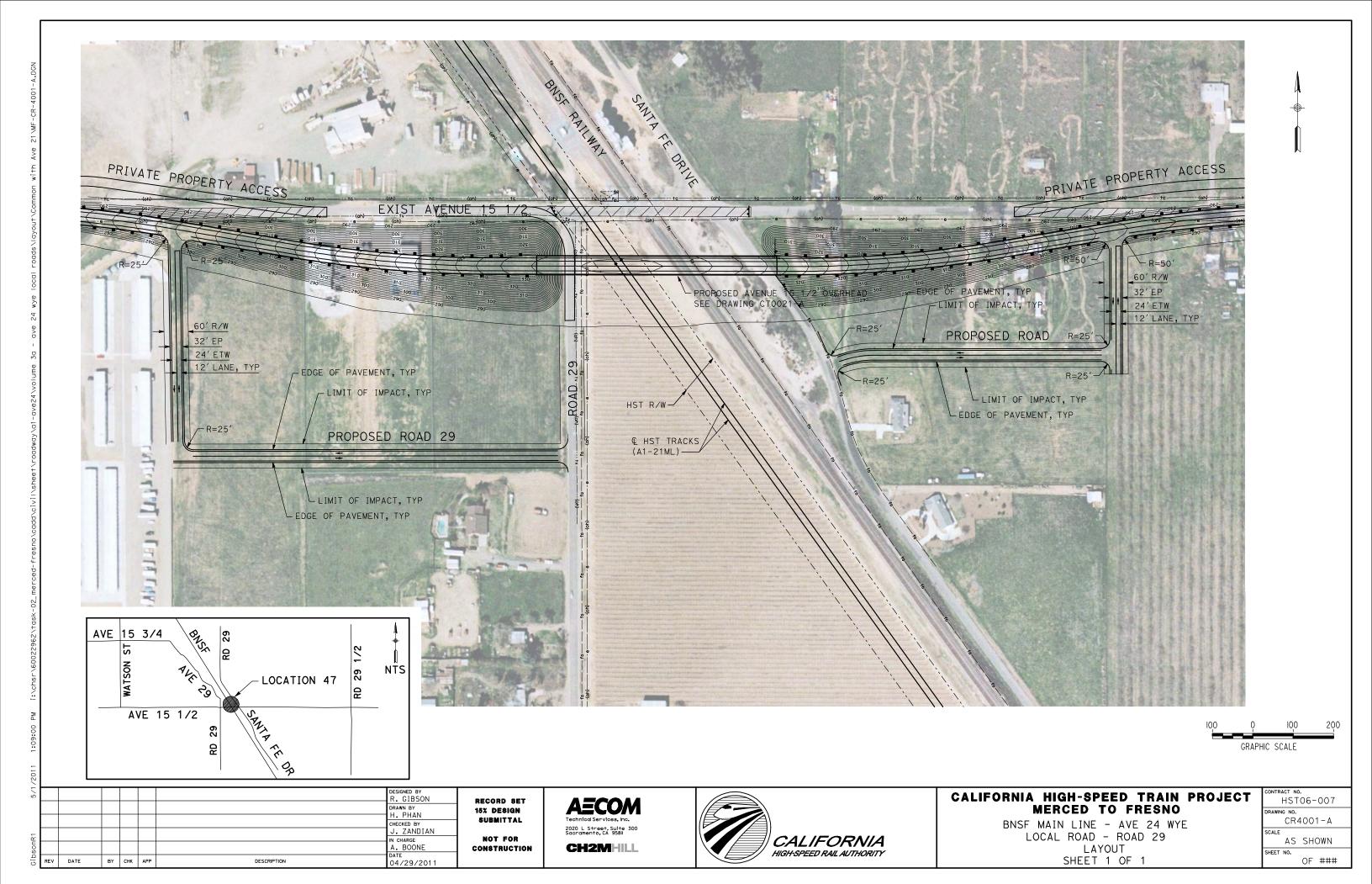
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Sacramento, CA 958II
CH2MHILL

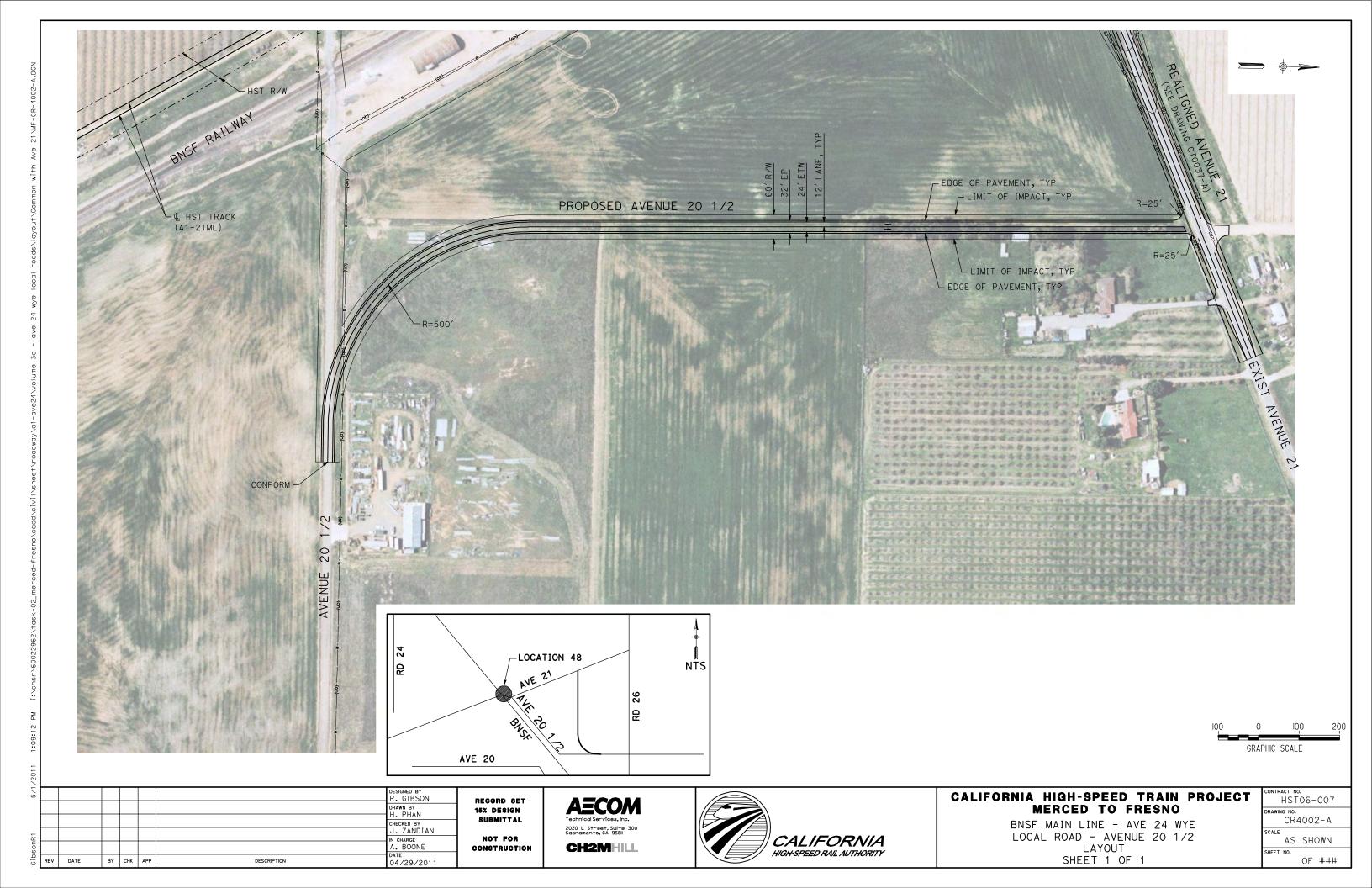


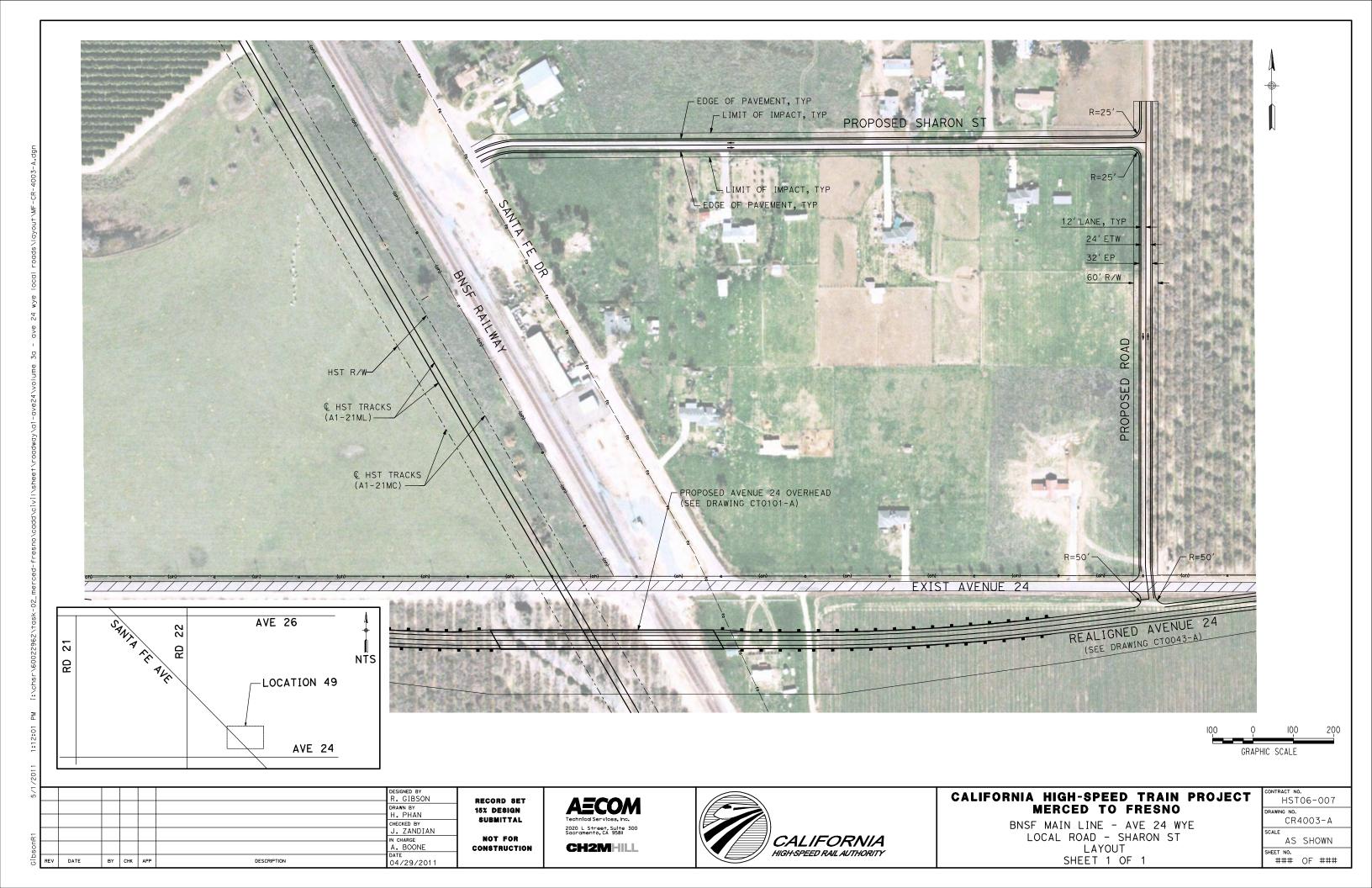
CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

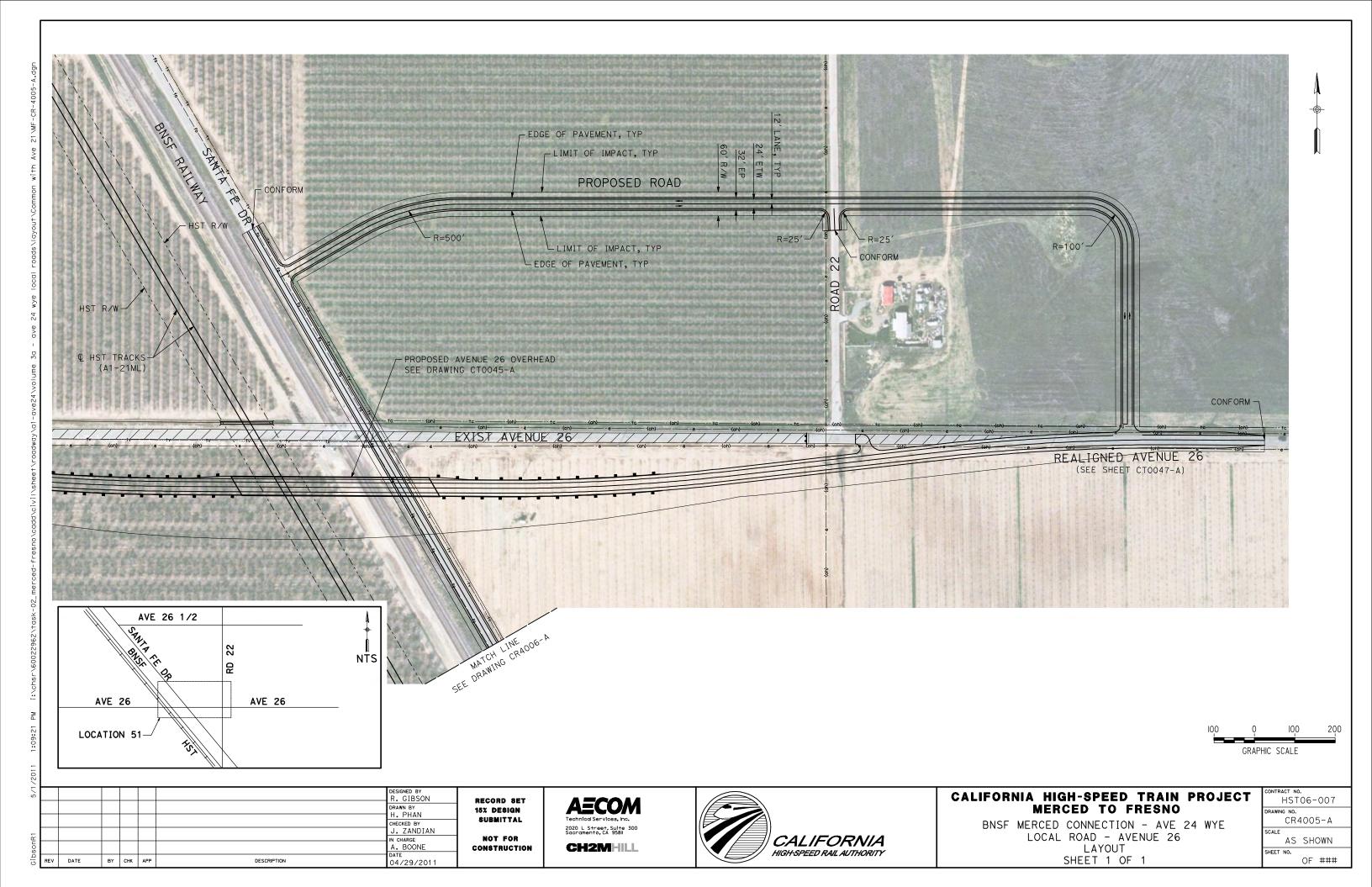
BNSF MAIN LINE - AVE 24 WYE LOCAL ROAD - ROAD 30 1/2 LAYOUT SHEET 1 OF 1

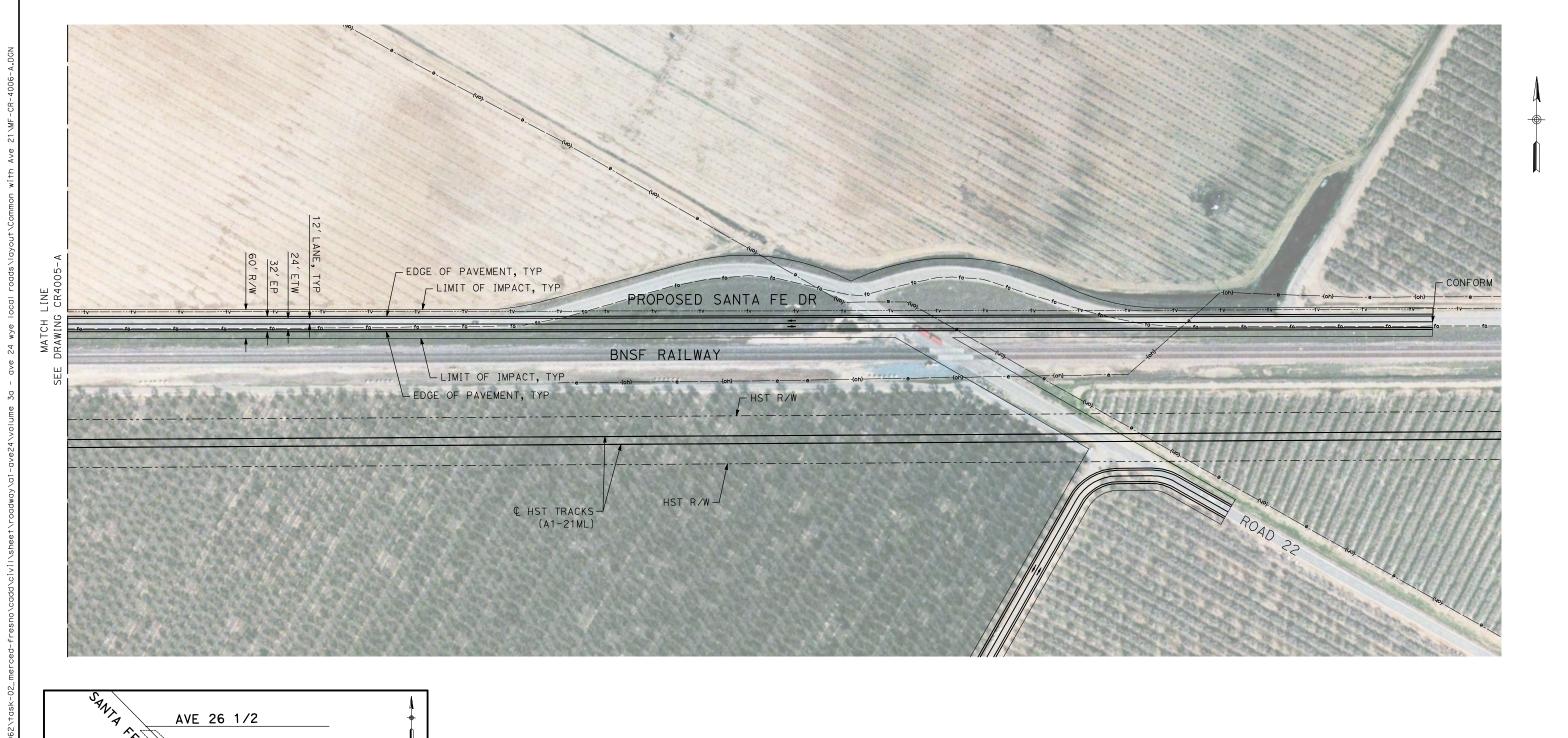
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AS SHOWN
SHEET NO.
OF

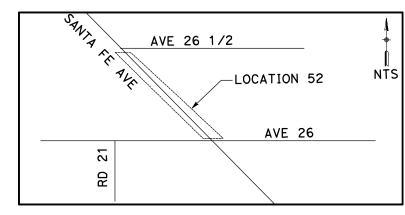


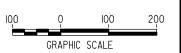












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5/1							DESIGNED BY R. GIBSON	
							DRAWN BY H. PHAN	l
							CHECKED BY J. ZANDIAN	l
Ž							J. ZANDIAN IN CHARGE	ł
GibsonR1							A. BOONE	
Gib	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 04/29/2011	

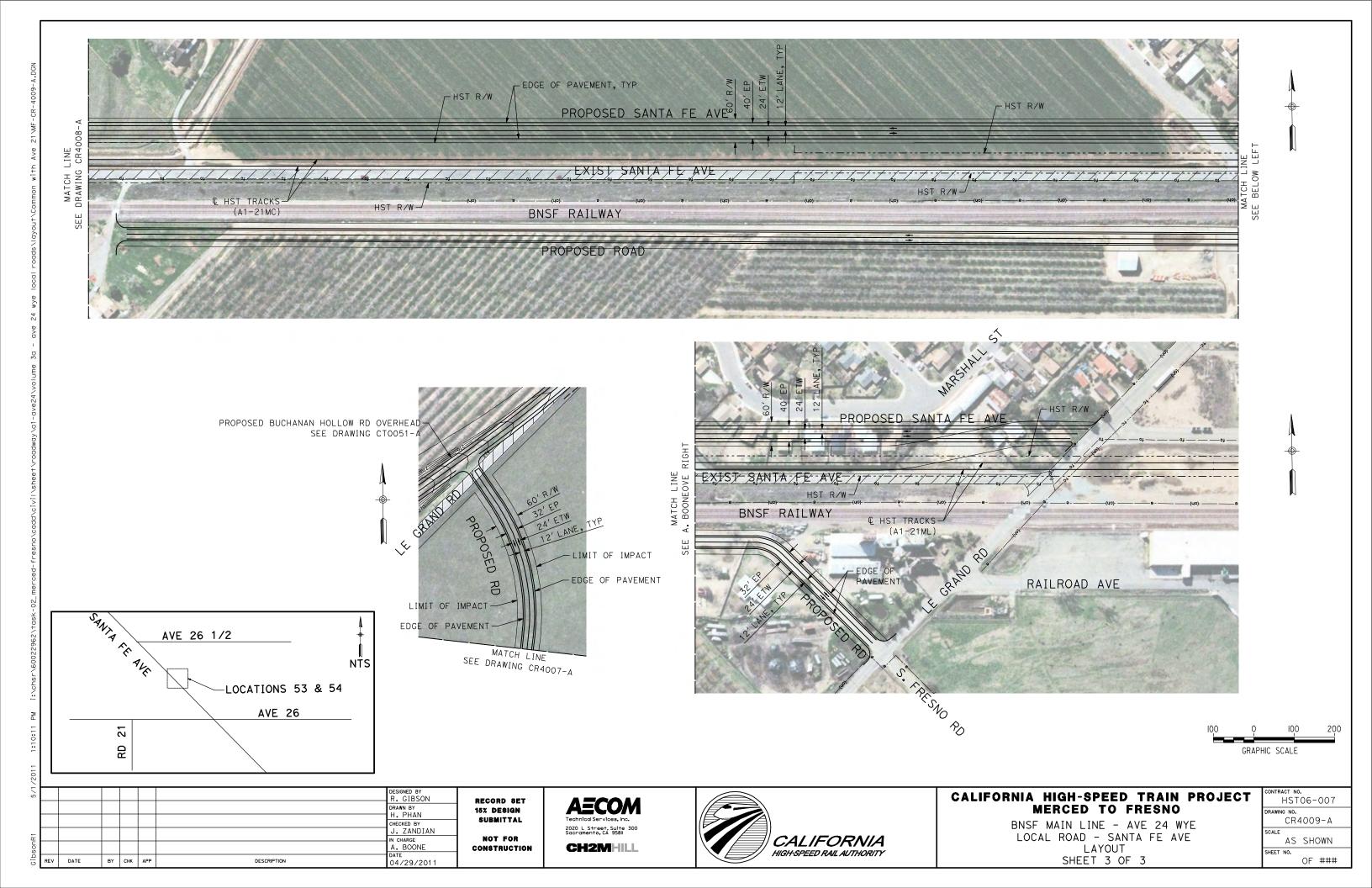
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CH2MHILL

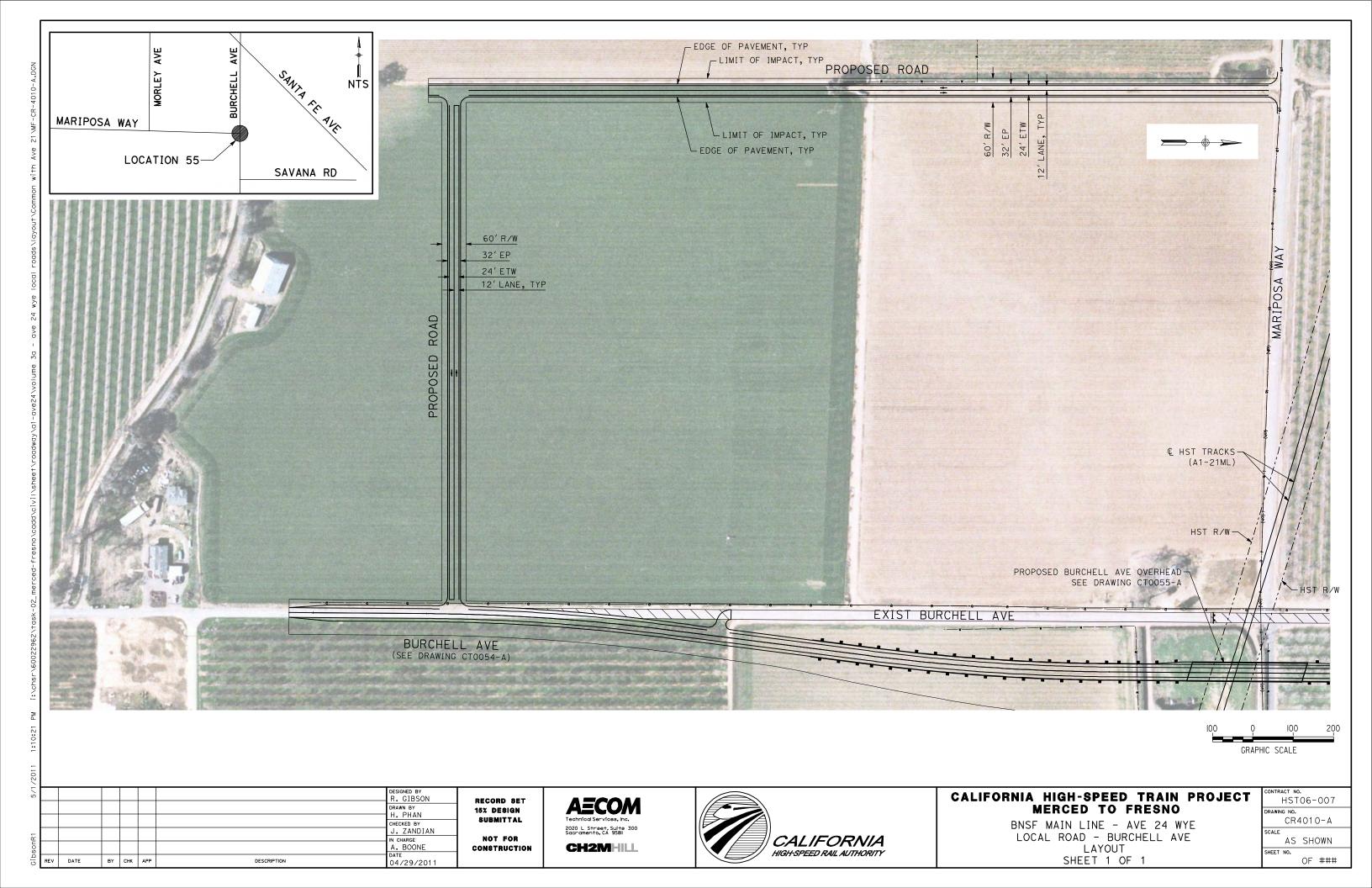


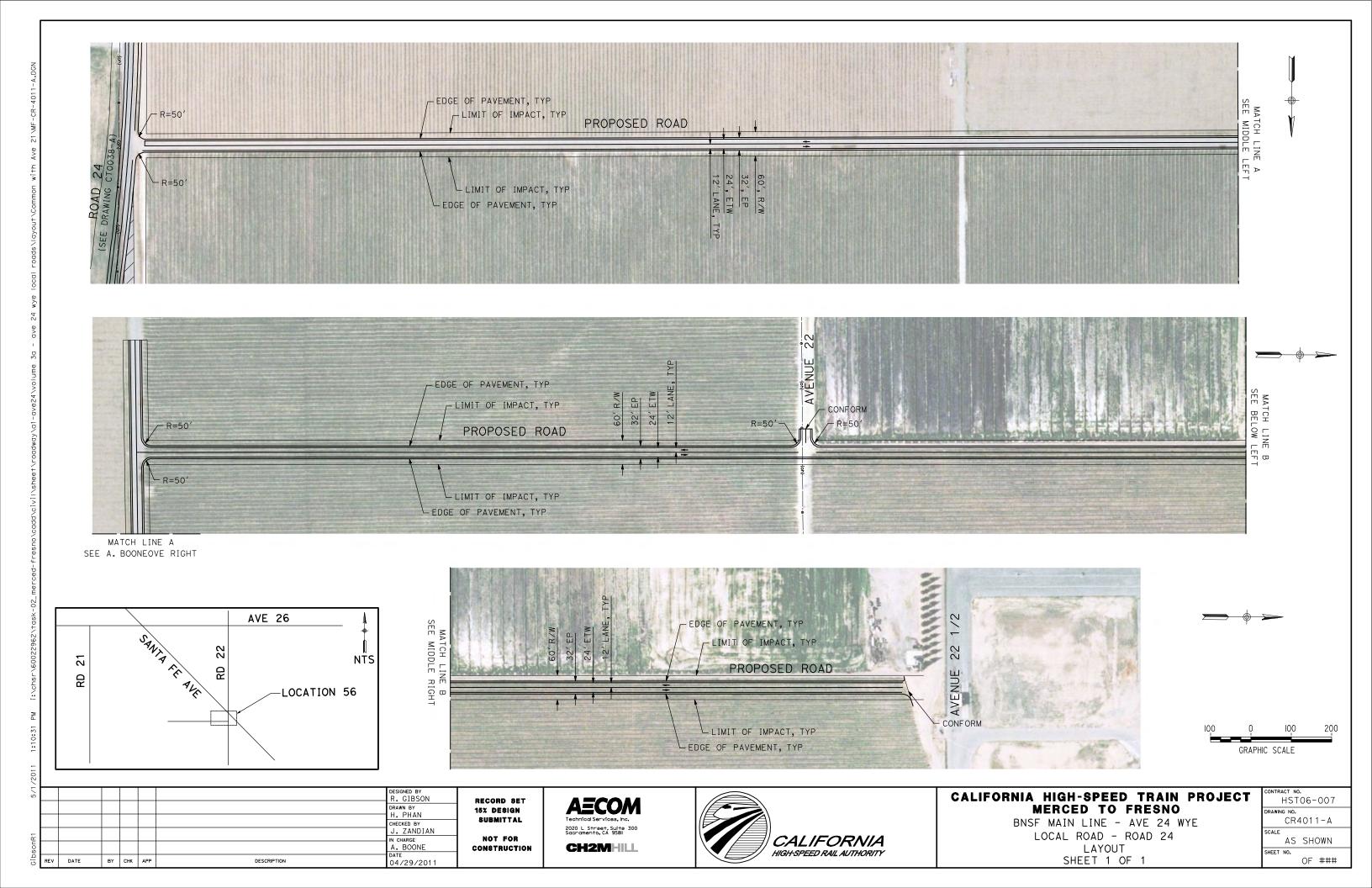
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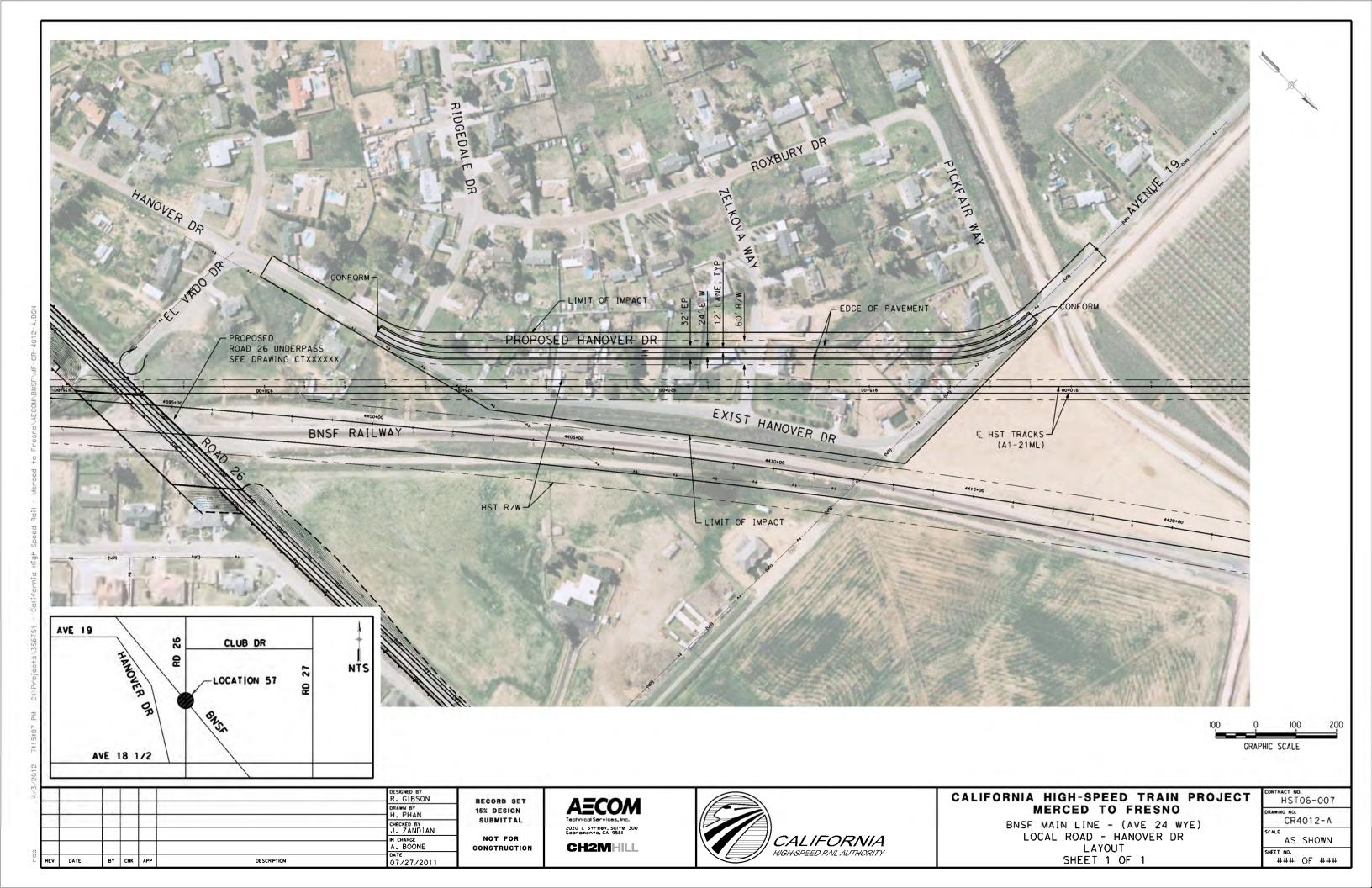
BNSF MAIN LINE - AVE 24 WYE LOCAL ROAD - SANTA FE DR LAYOUT SHEET 2 OF 2

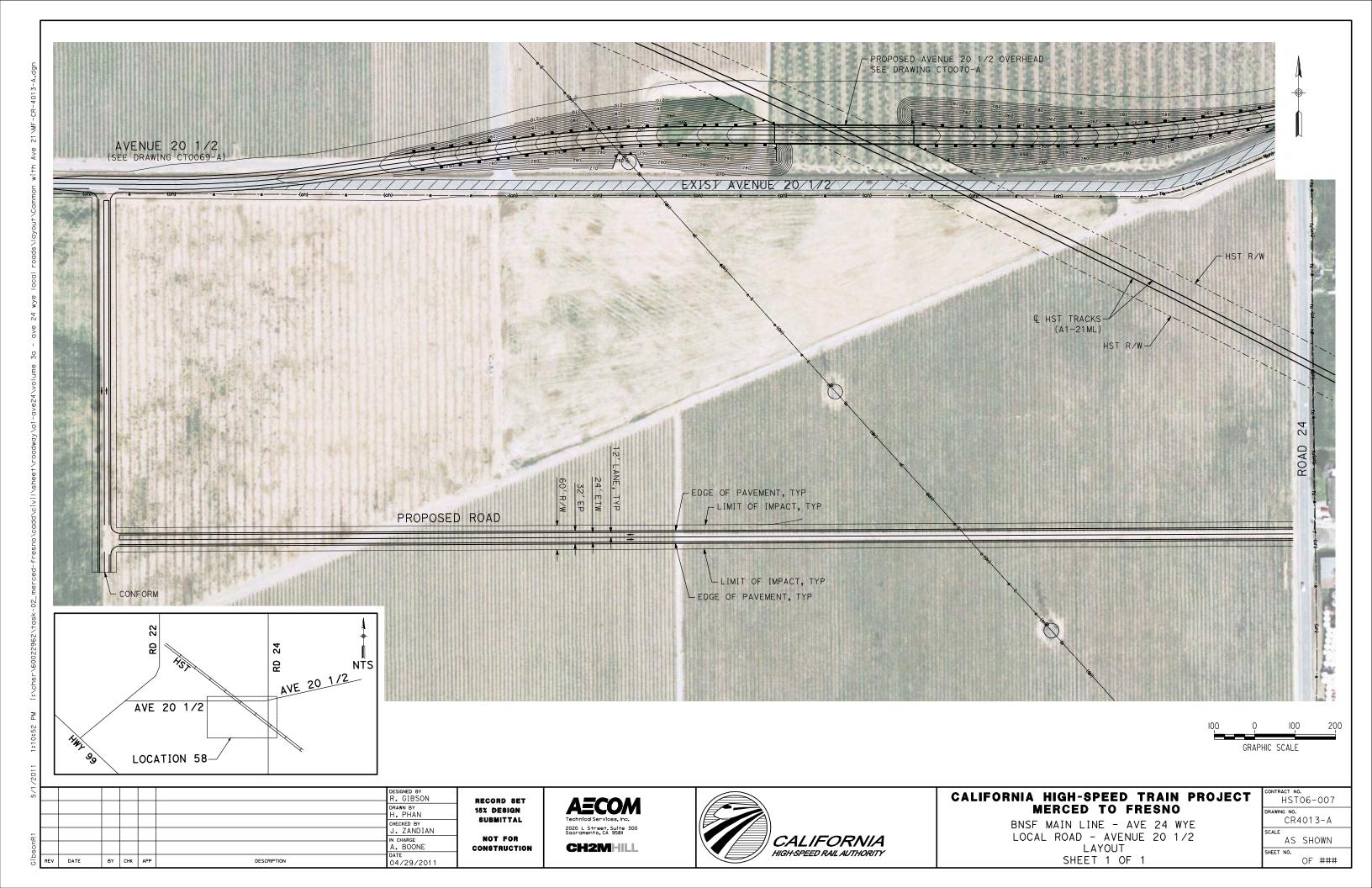
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SHEET NO. OF ###

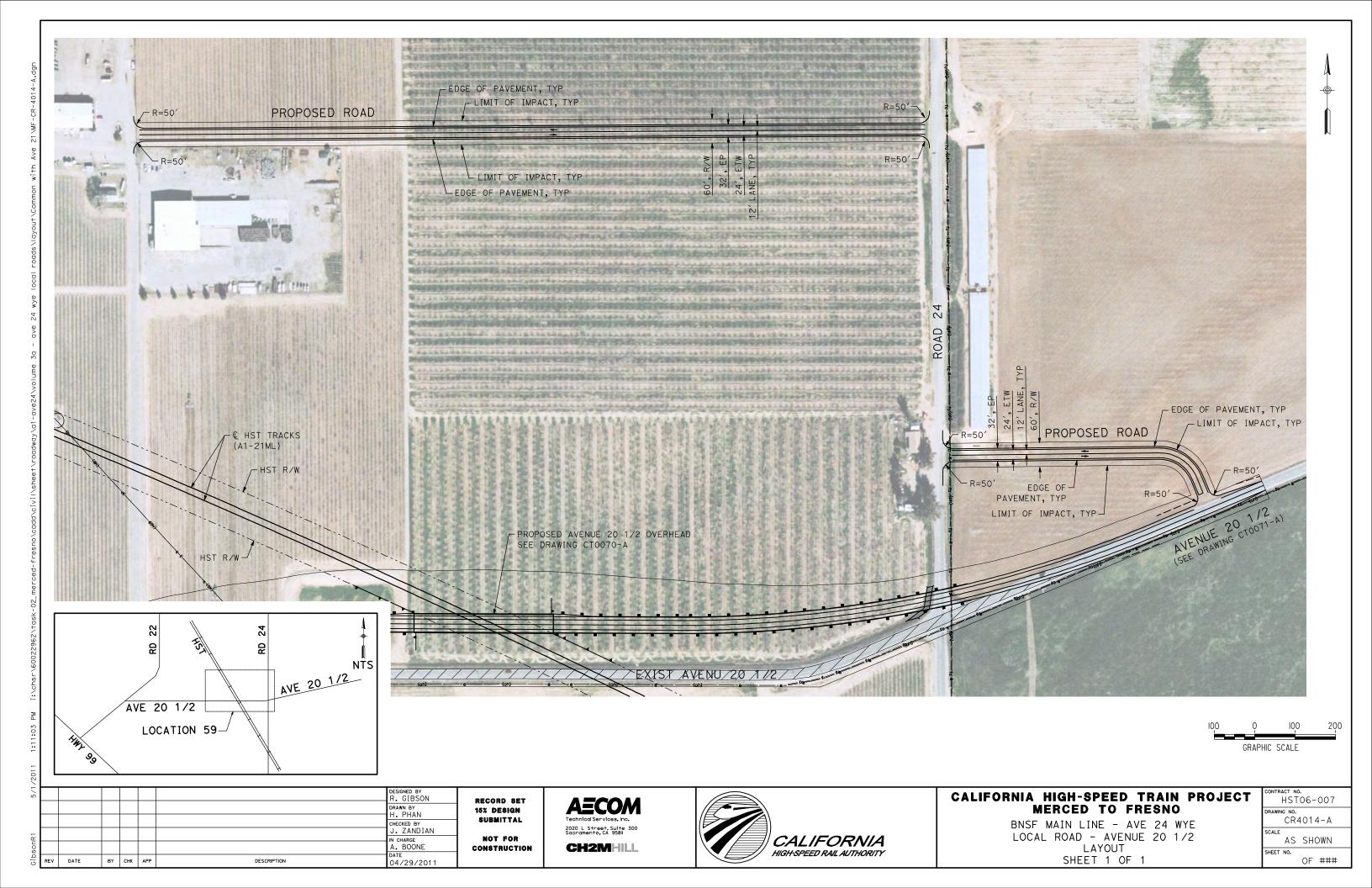


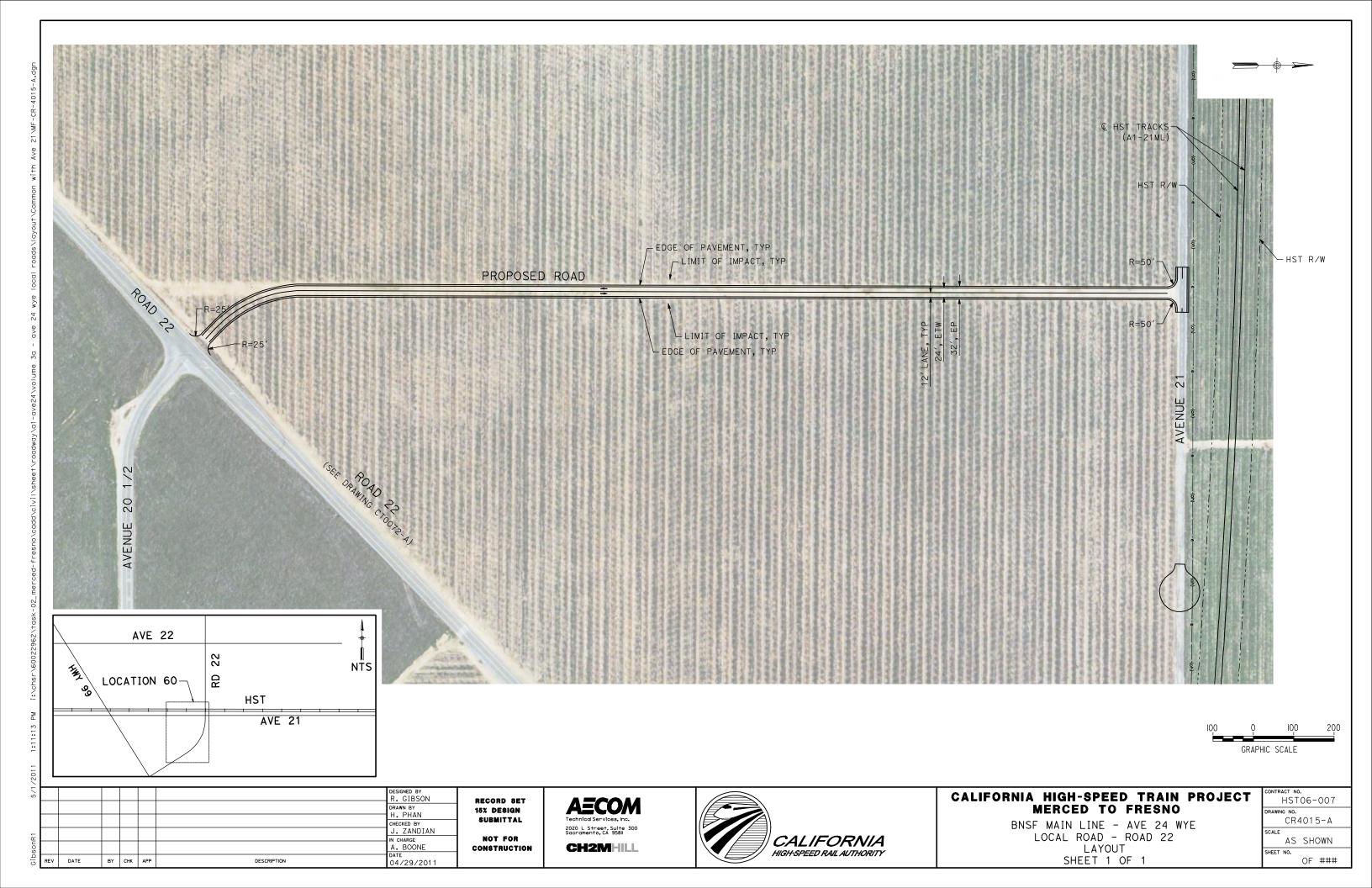




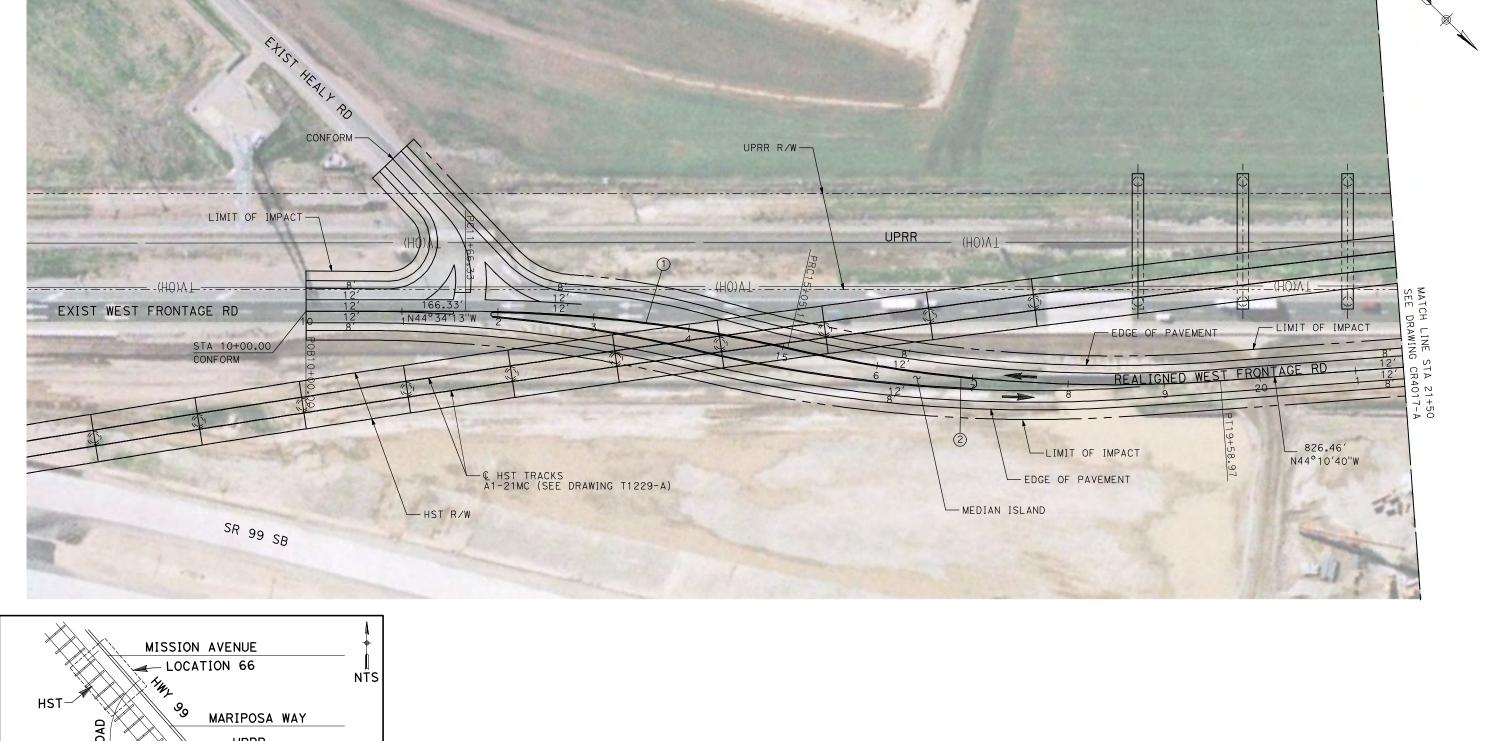








BY CHK APP



DESIGNED BY

drawn by A. TRINH

CHECKED BY
J. ZANDIAN

IN CHARGE A. BOONE DATE

04/29/2011

DESCRIPTION

RECORD SET

2020 L Street, Suite 300 Sacramento, CA 95811

CH2MHILL

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

15% DESIGN Submittal

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CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE PROPOSED WEST FRONTAGE ROAD LAYOUT SHEET 1 OF 2

CR4016-A

SCALE
AS SHOWN

SHEET NO.

OF ###

HSR06-007

l''=50'



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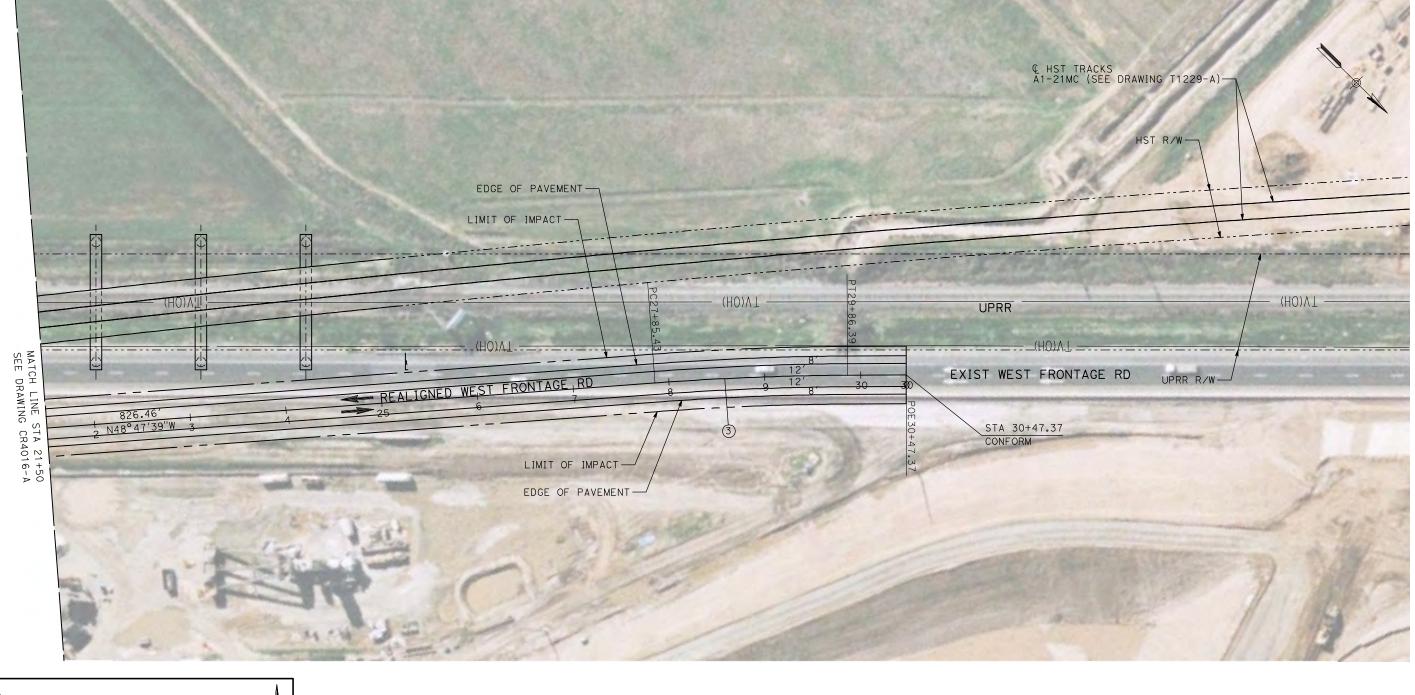


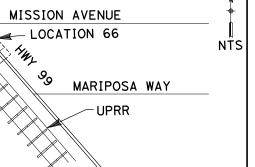


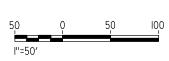
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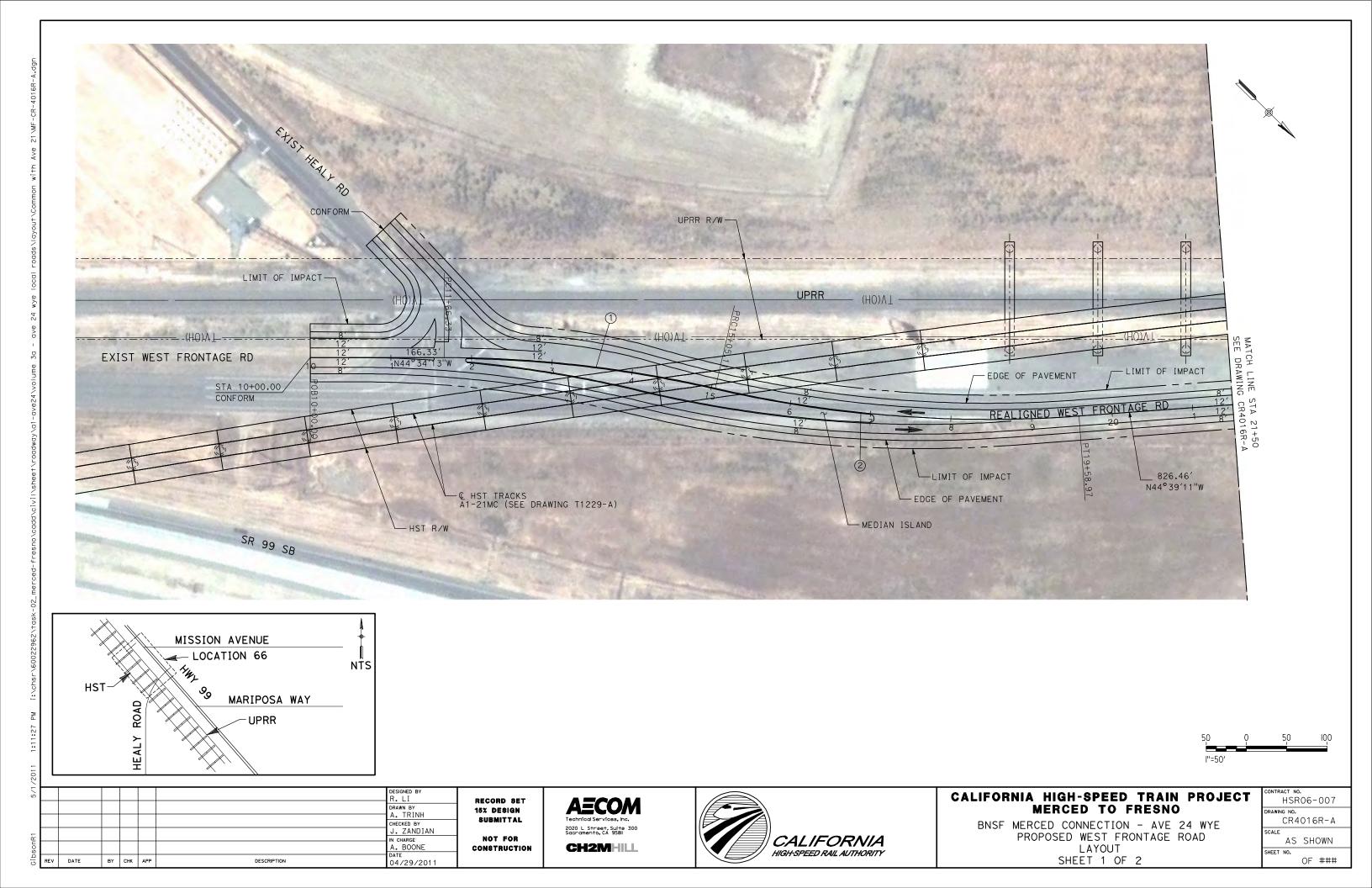
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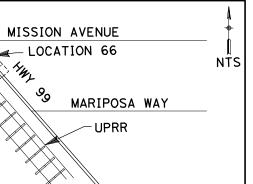


CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

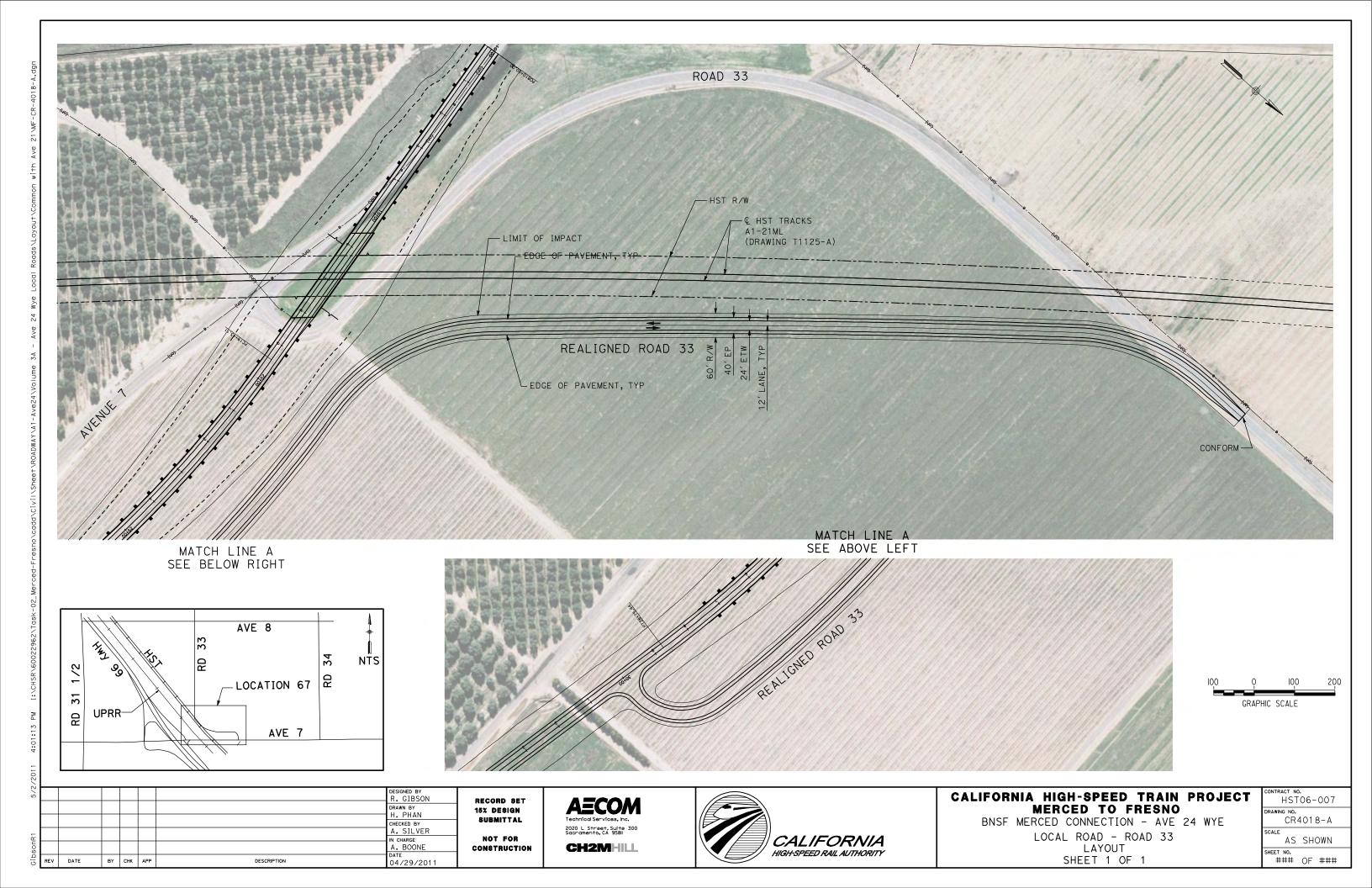
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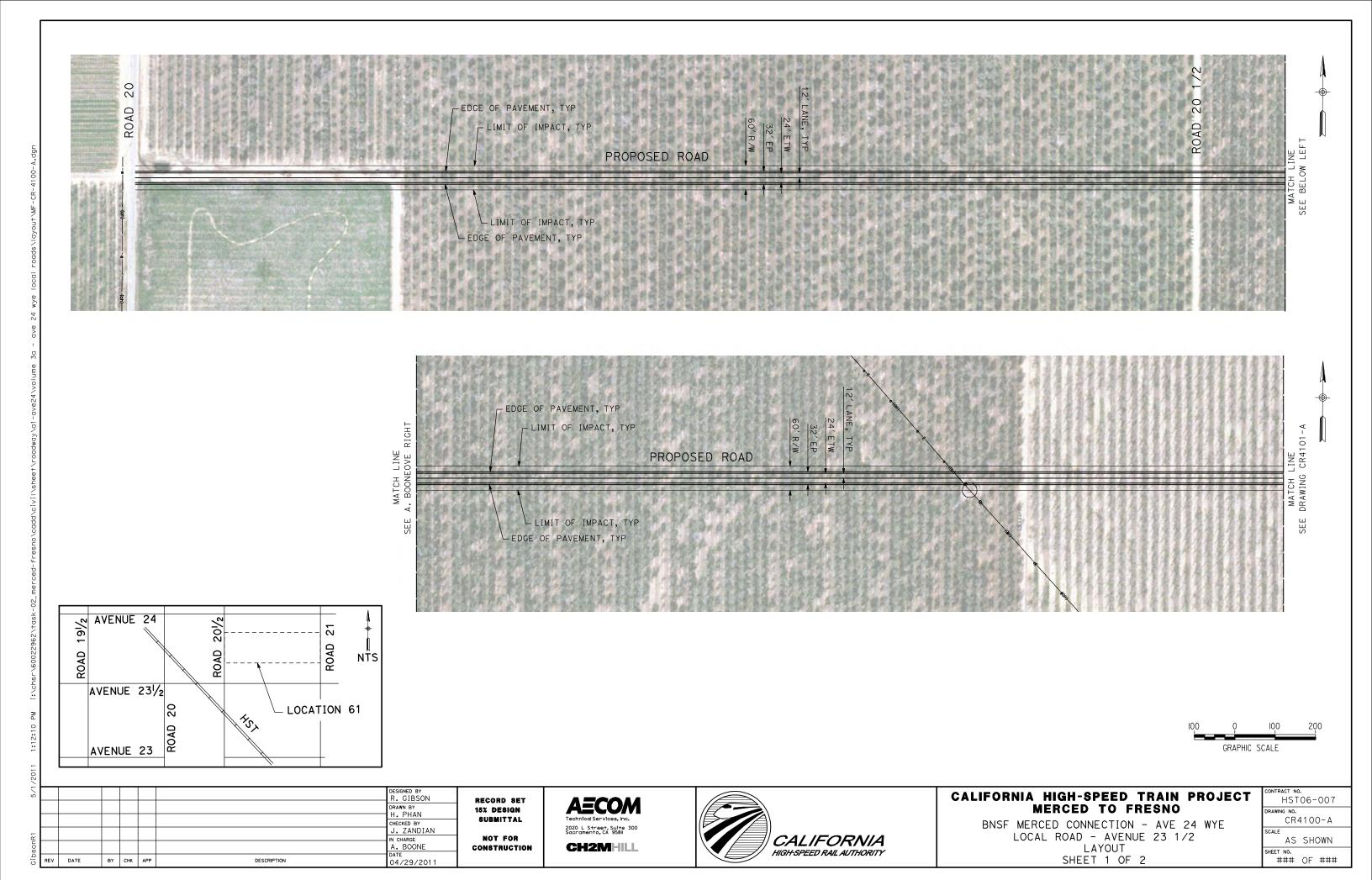
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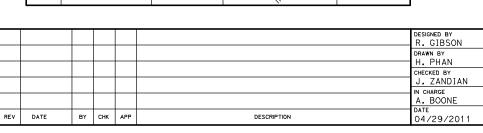




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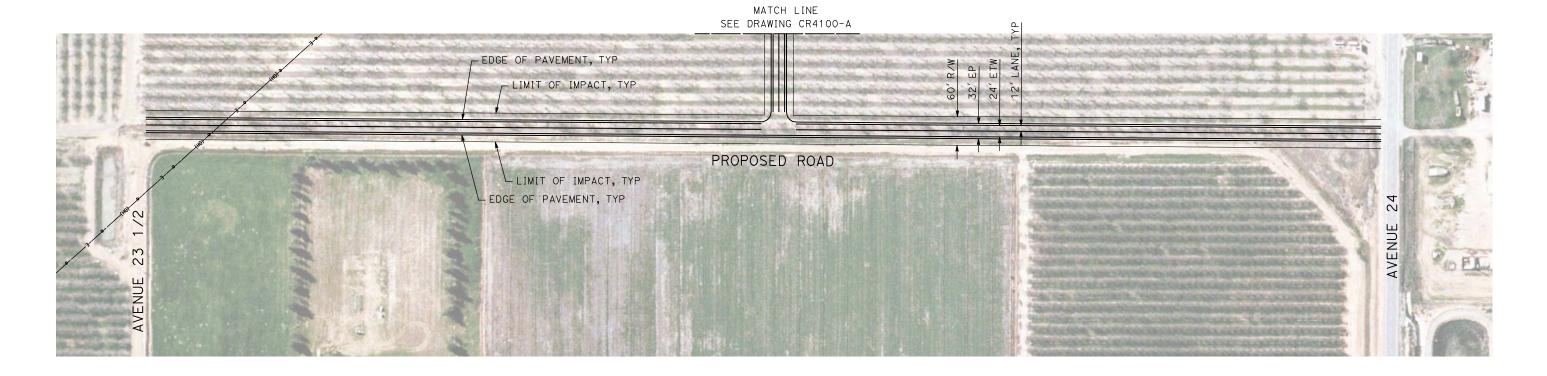


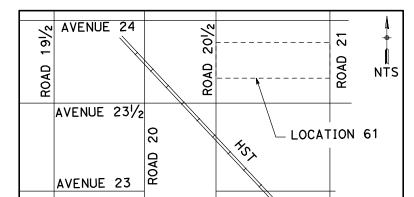




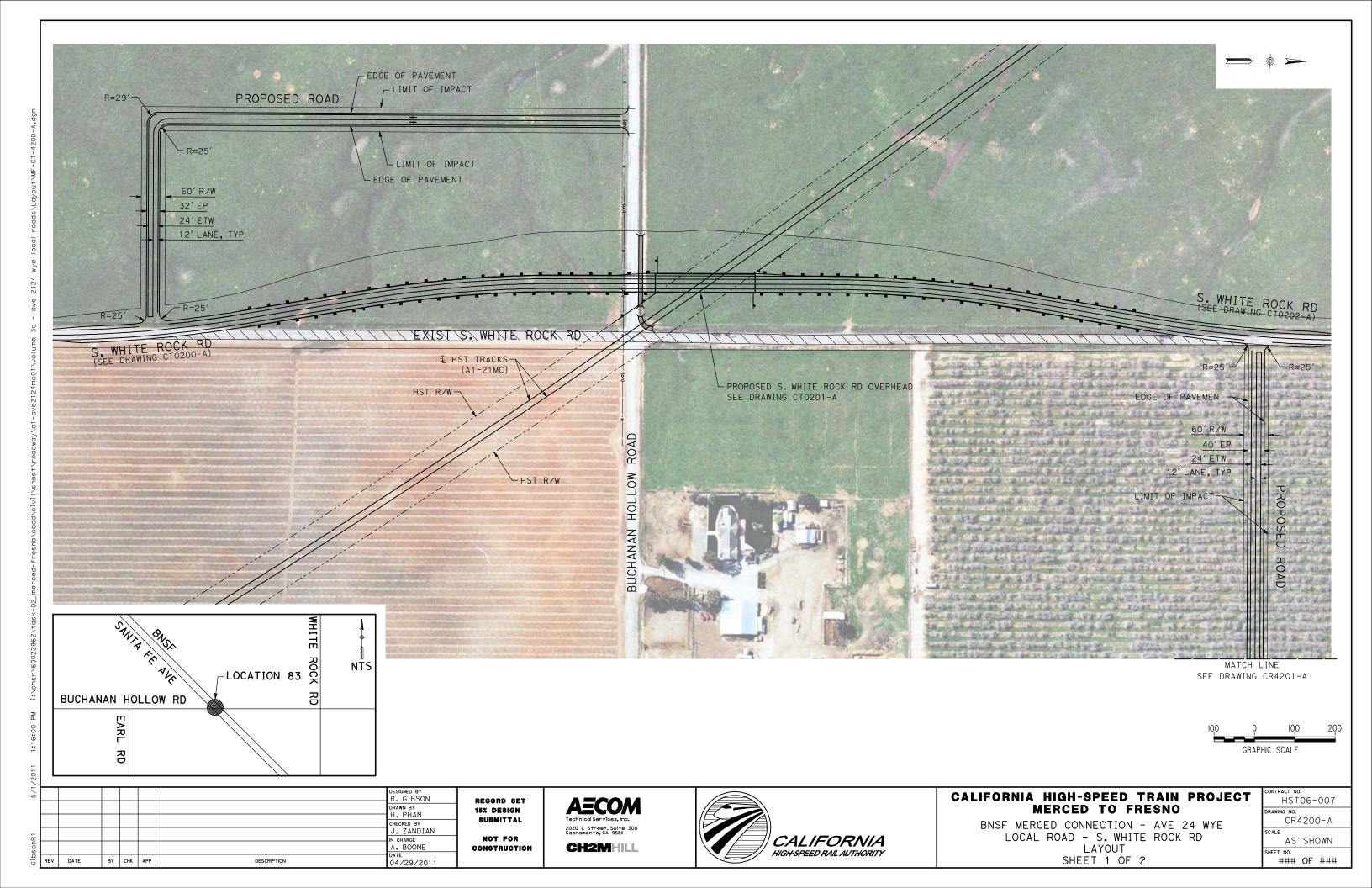
BNSF MERCED CONNECTION - AVE 24 WYE LOCAL ROAD - AVENUE 23 1/2 LAYOUT SHEET 2 OF 2

T	CONTRACT NO. HST06-007
	DRAWING NO.
	CR4101-A
	SCALE
	AS SHOWN
	SHEET NO. ### OF ###





O O 100 200 GRAPHIC SCALE



BUCHANAN HOLLOW RD

망

DESIGNED BY R. GIBSON DRAWN BY H. PHAN CHECKED BY
J. ZANDIAN N CHARGE A. BOONE BY CHK APP DESCRIPTION 04/29/2011

LOCATION 83 C

NTS

RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

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MATCH LINE SEE DRAWING CR4200-A

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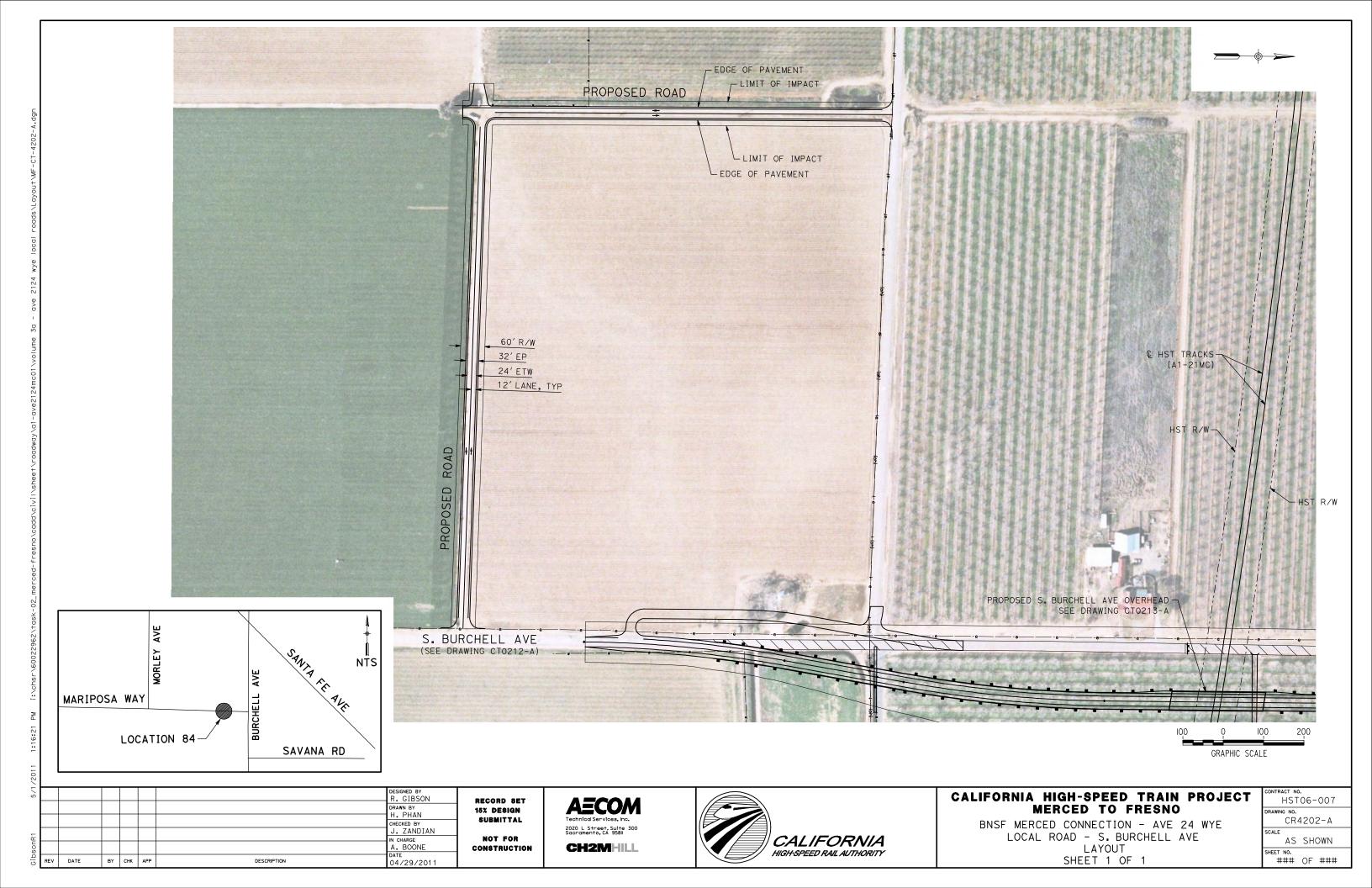
BNSF MERCED CONNECTION - AVE 24 WYE LOCAL ROAD - S. WHITE ROCK RD LAYOUT SHEET 2 OF 2

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DRAWING NO.	
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SCALE	Ī
AS SHOWN	

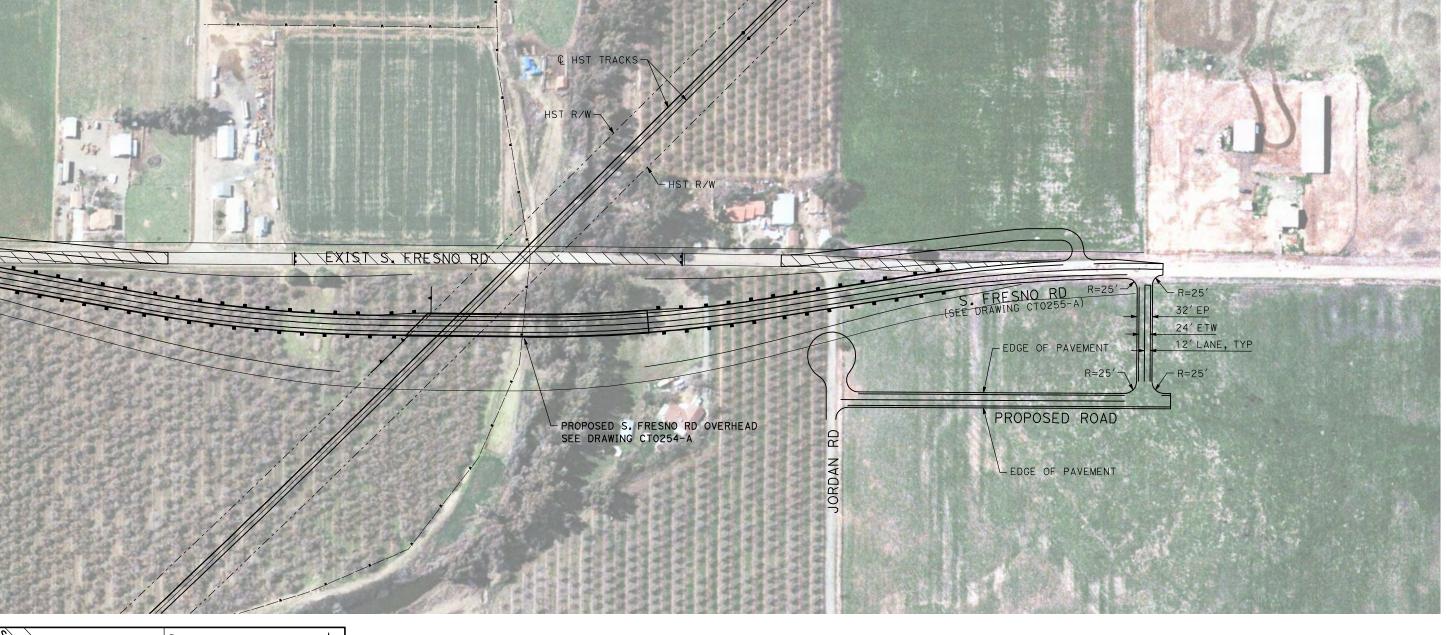
OF

GRAPHIC SCALE

	PROPOSED ROAD PROPOSED ROAD PROPOSED ROAD
	LIMIT OF IMPACT -EDGE OF PAVEMENT
<i>\</i> / ₀ ,	









CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE LOCAL ROAD - S. FRESNO RD LAYOUT SHEET 1 OF 1

CONTRACT NO.
HST06-007
DRAWING NO.
CR4255-A
SCALE
AS SHOWN
SHEET NO

OF

BY CHK APP

DESCRIPTION



CALIFORNIA HIGH-SPEED RAIL AUTHORITY CALIFORNIA HIGH-SPEED TRAIN PROJECT

MERCED TO FRESNO

BNSF MERCED CONNECTION - AVE 24 WYE

LOCAL ROAD - S. SANTA FE AVE

LAYOUT

SHEET 1 OF 2

HST06-007

CR4300-A

AS SHOWN

OF

DESIGNED BY R. GIBSON

DRAWN BY H. PHAN

N CHARGE A. BOONE

04/29/2011

CHECKED BY
J. ZANDIAN

RECORD SET

15% DESIGN SUBMITTAL

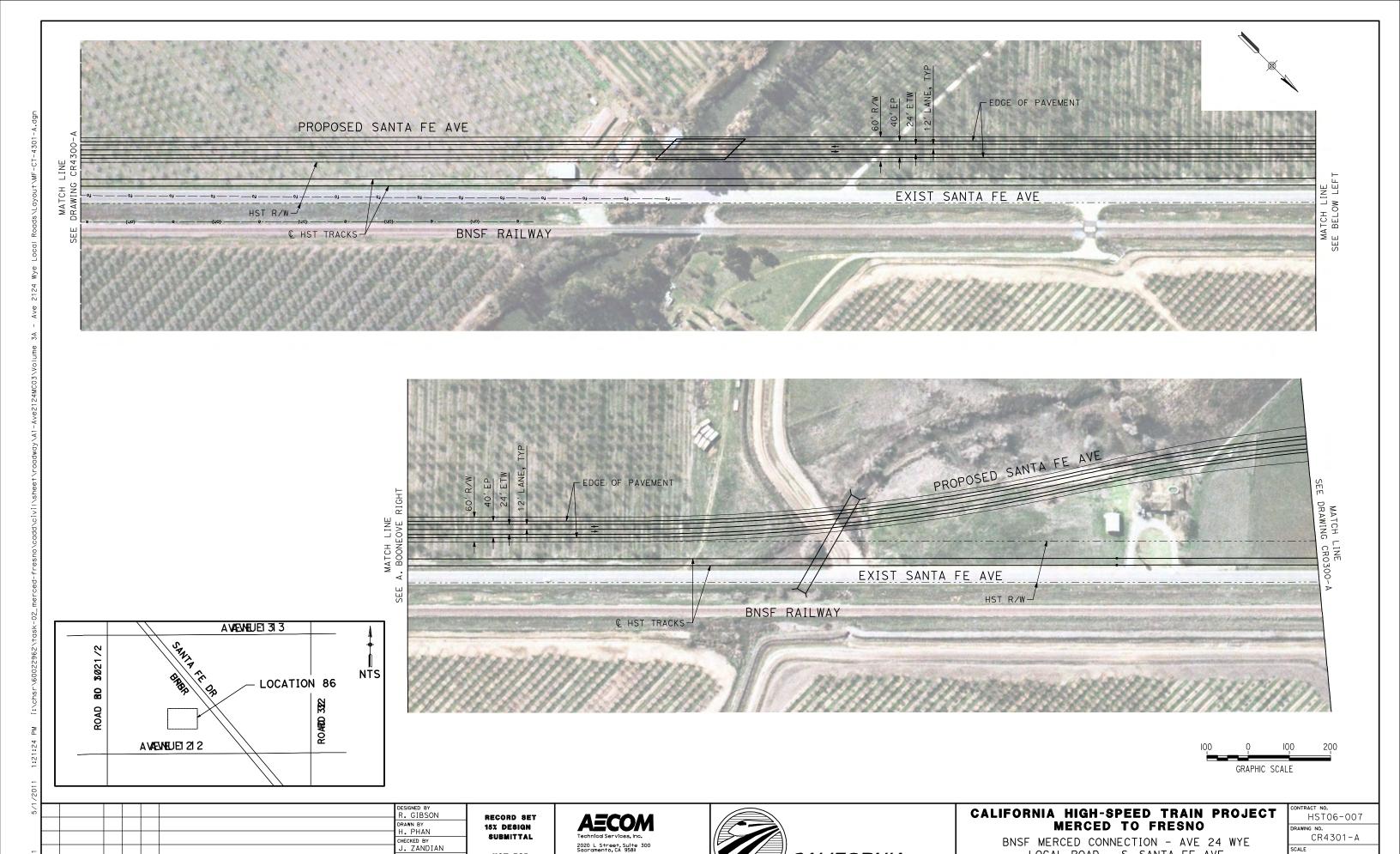
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2020 L Street, Suite 300 Sacramento, CA 95811

CH2MHILL

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

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CONSTRUCTION

N CHARGE A. BOONE

04/29/2011

DESCRIPTION

BY CHK APP

BNSF MERCED CONNECTION - AVE 24 WYE

LOCAL ROAD - S. SANTA FE AVE

LAYOUT

SHEET 2 OF 2

AS SHOWN

OF